



CAPITAL MARKETS REVIEW

January 2020

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REVIEWING THE QUARTER ENDED DECEMBER 31, 2019

SUMMARY

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Quarterly Topics

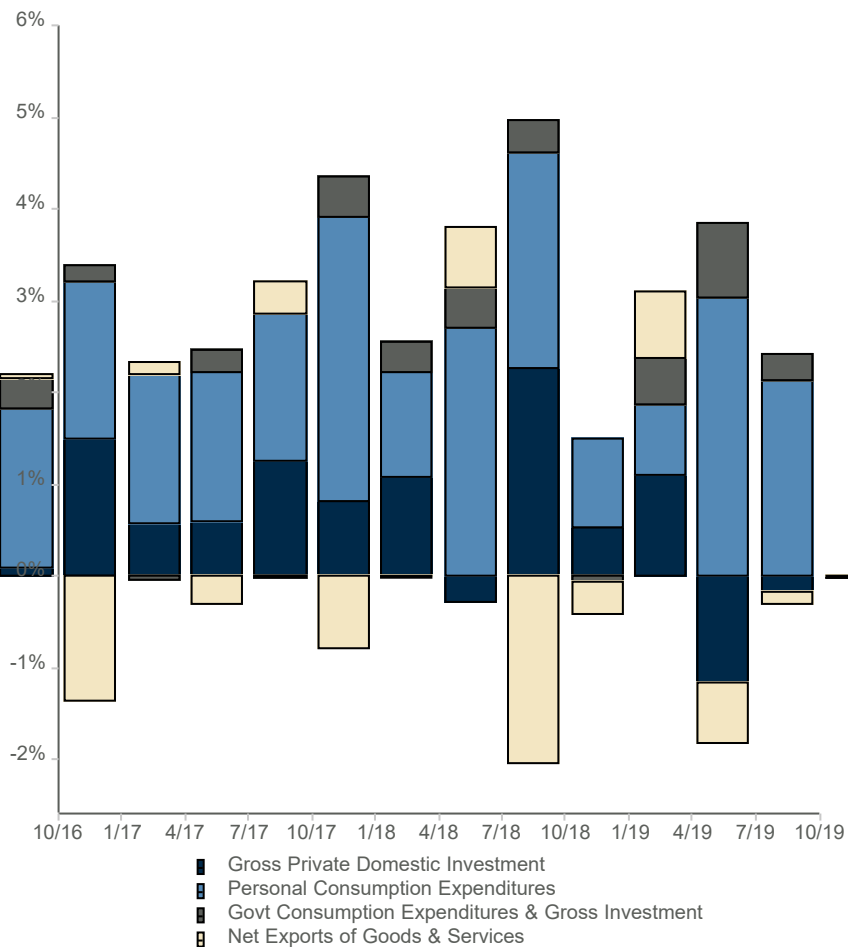
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Capital Markets Review

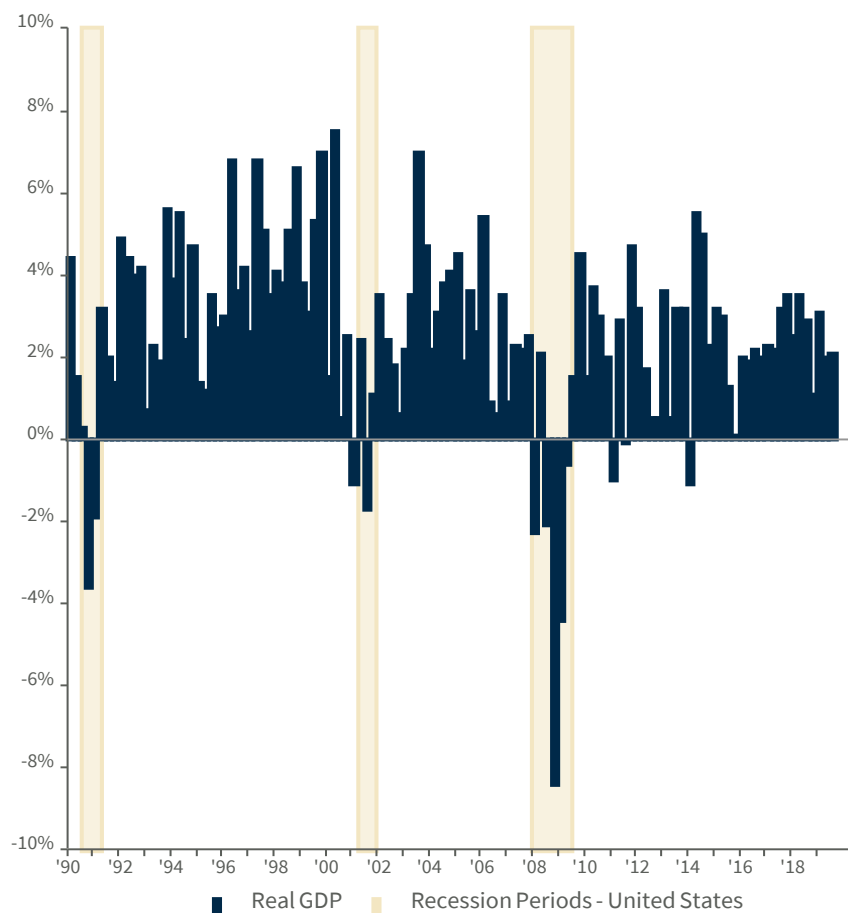
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ECONOMIC REVIEW | GROSS DOMESTIC PRODUCT

Contribution to % Change in Real GDP

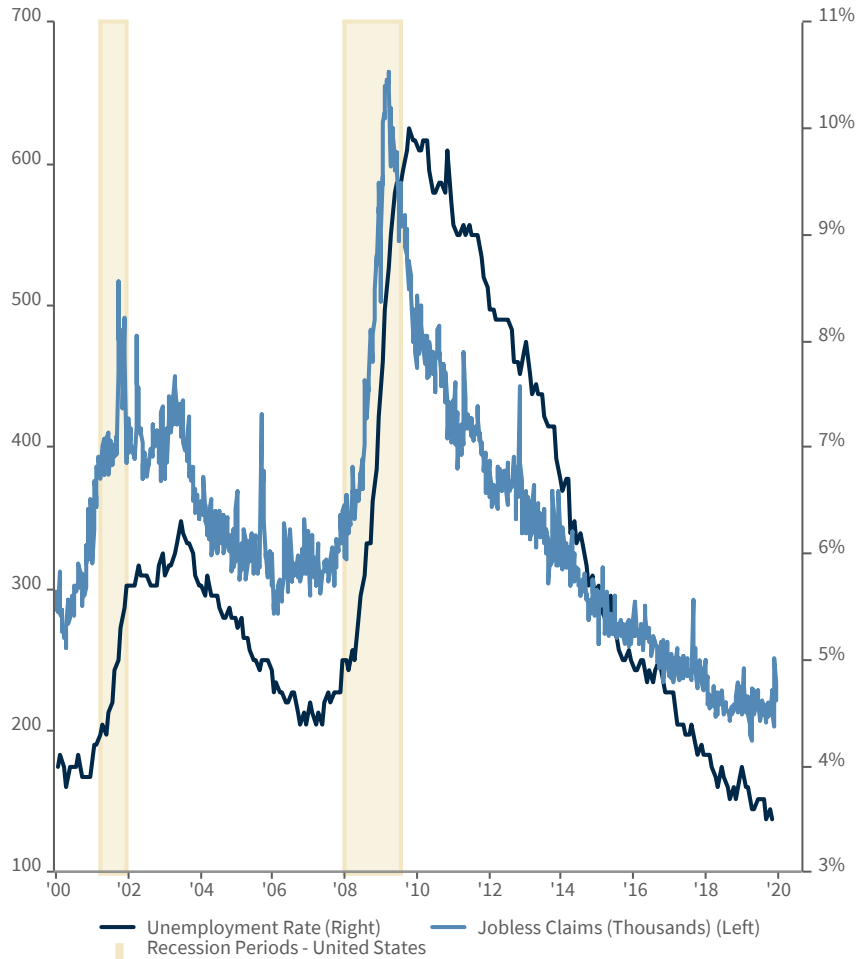


Quarterly Change in Real GDP

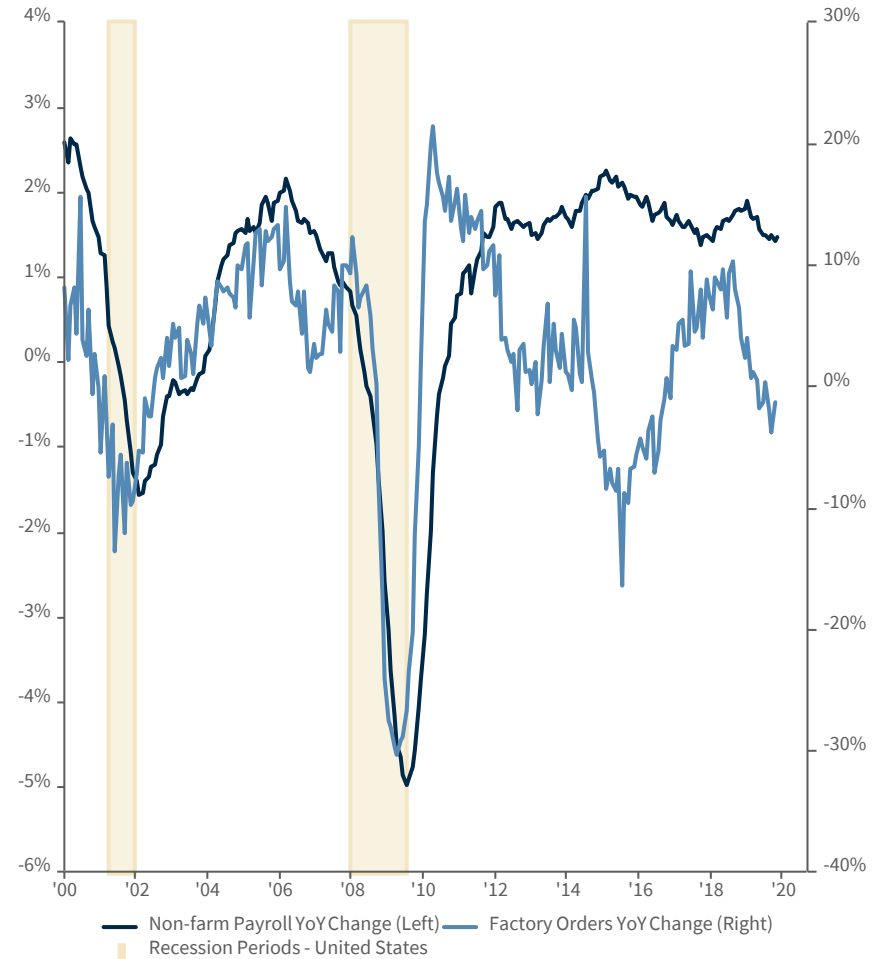


ECONOMIC REVIEW | EMPLOYMENT

Civilian Unemployment Rate



Non-Farm Payroll and Factory Orders



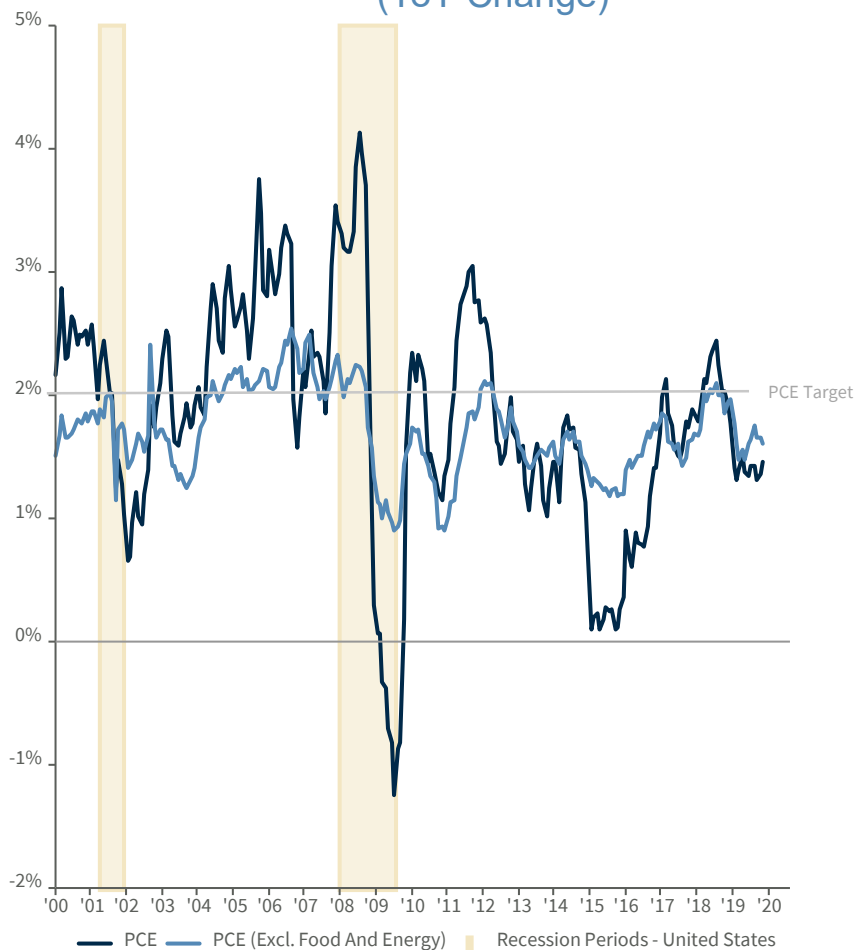
ECONOMIC REVIEW | MAJOR INDUSTRY CONTRIBUTIONS TO JOB GROWTH

Construction and Manufacturing

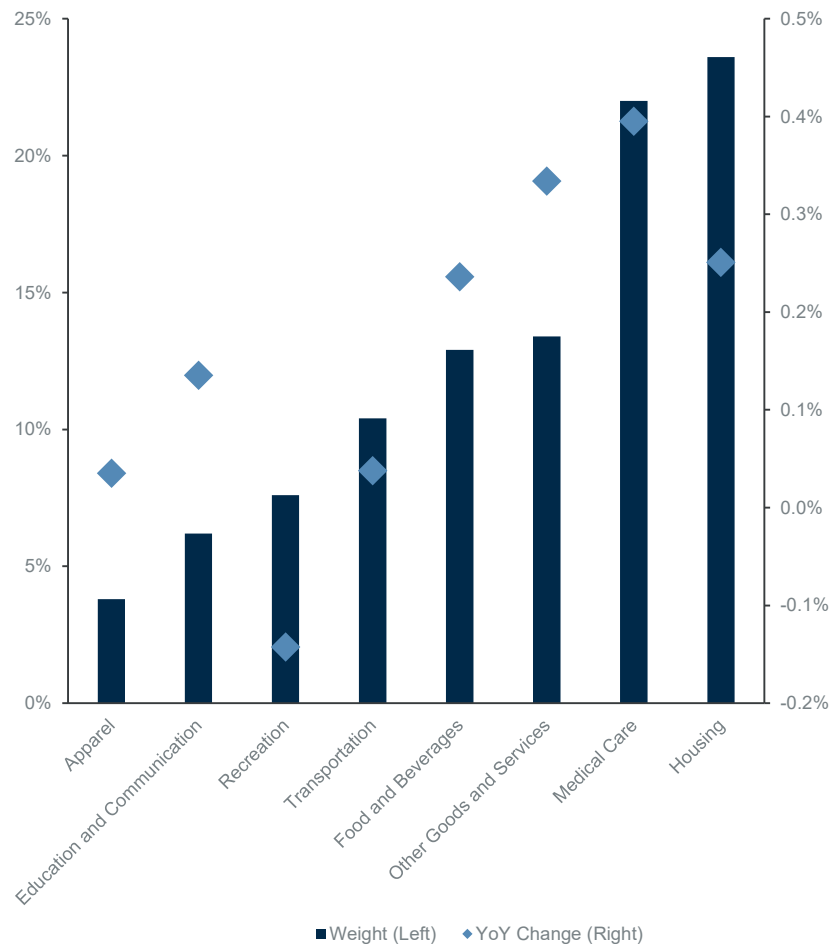


ECONOMIC REVIEW | INFLATION

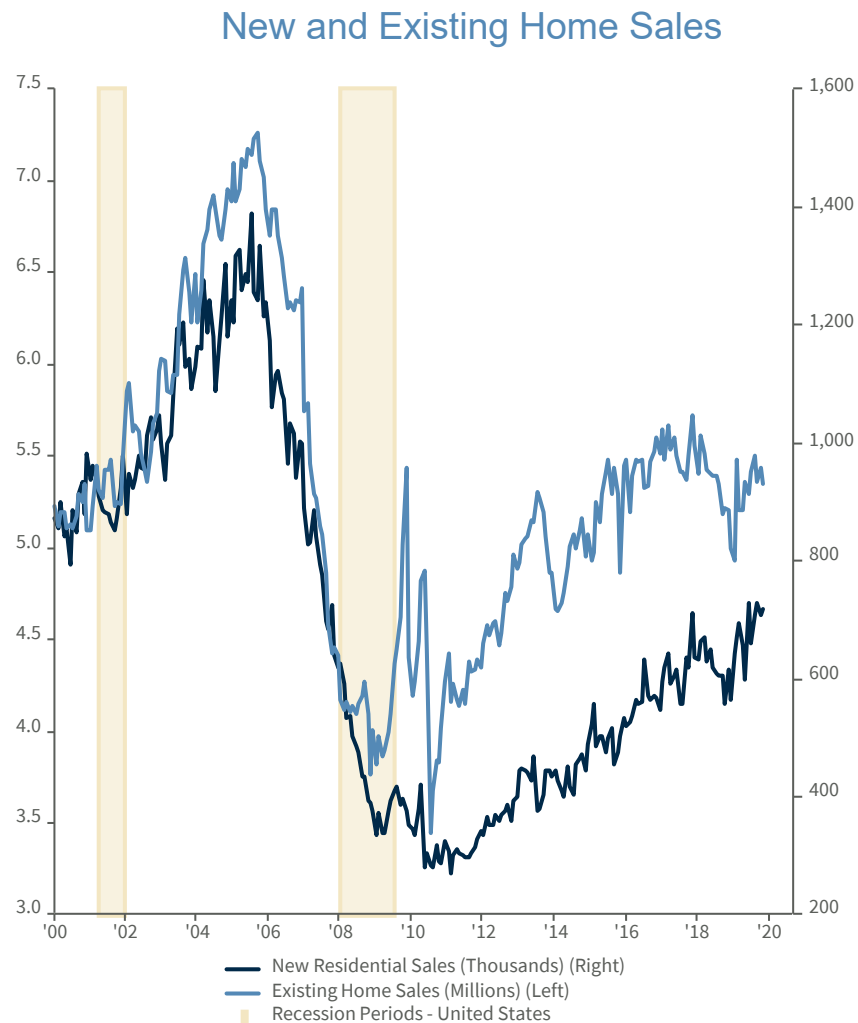
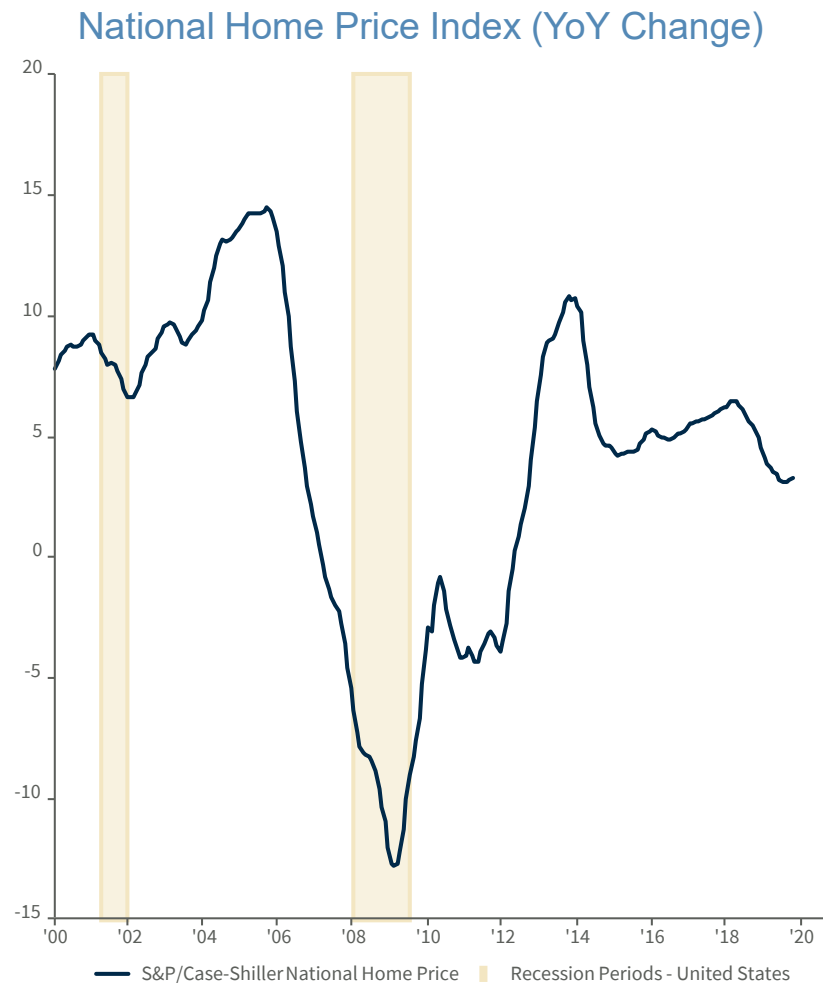
Personal Consumption Expenditures (PCE) (YoY Change)



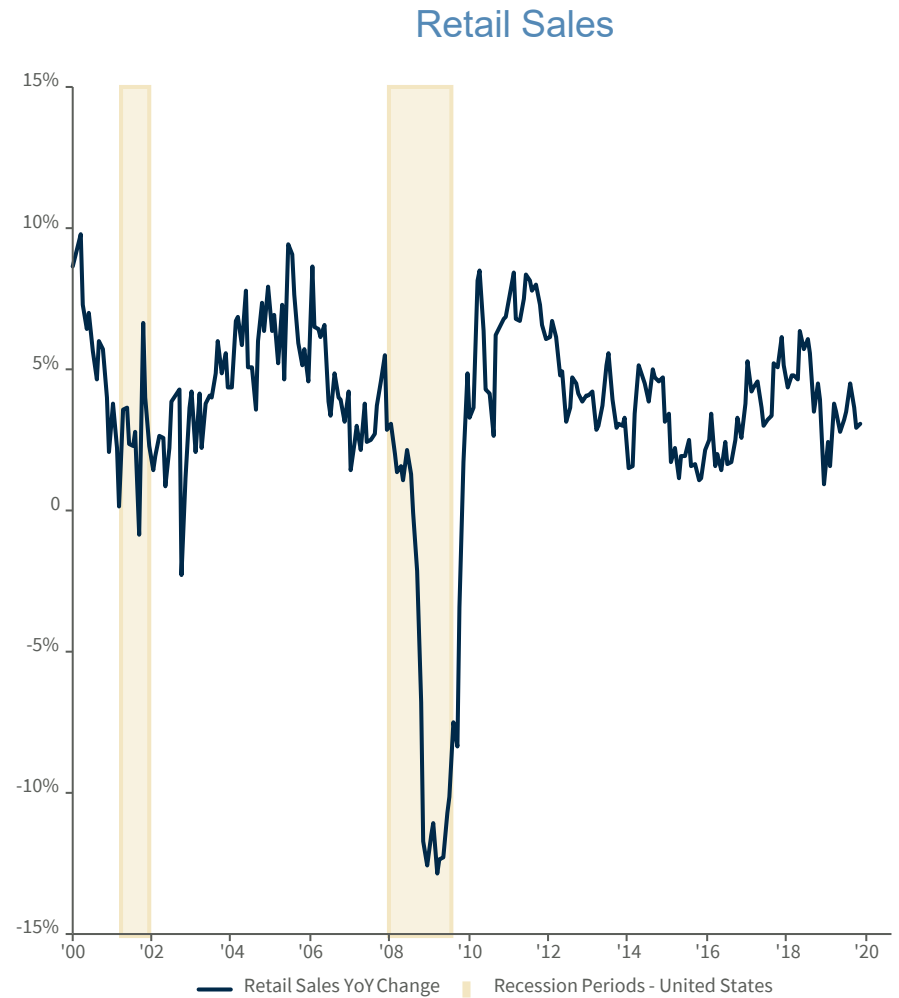
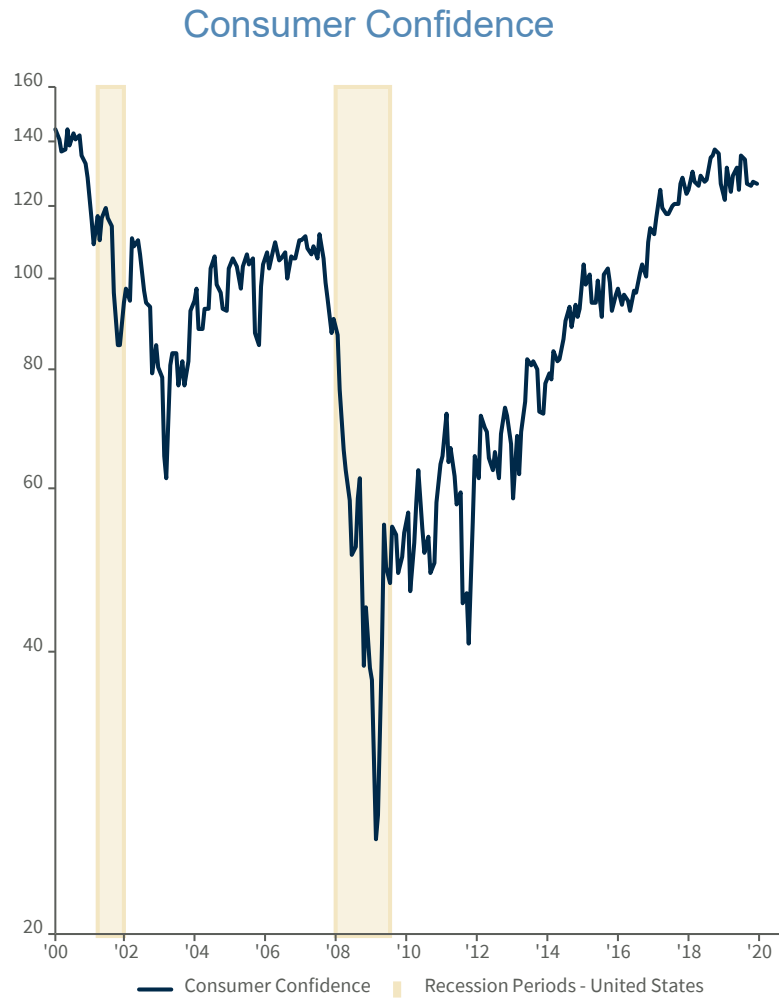
Components of PCE



ECONOMIC REVIEW | HOUSING MARKET



ECONOMIC REVIEW | CONSUMER CONFIDENCE



CAPITAL MARKETS | BROAD ASSET CLASS RETURNS

2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Non-US Equities 34.4%	Real Estate 40.4%	Fixed Income 7.8%	Non-US Equities 17.0%	US Equities 32.4%	Real Estate 14.3%	US Equities 1.4%	Real Estate 15.3%	Non-US Equities 24.8%	Cash & Cash Alternatives 1.8%	US Equities 31.5%
US Equities 26.5%	Commodities 16.7%	Blended Portfolio 2.3%	US Equities 16.0%	Non-US Equities 21.6%	US Equities 13.7%	Fixed Income 0.5%	US Equities 12.0%	US Equities 21.8%	Fixed Income 0.0%	Non-US Equities 23.2%
Real Estate 22.1%	US Equities 15.1%	US Equities 2.1%	Blended Portfolio 11.4%	Blended Portfolio 17.0%	Blended Portfolio 8.0%	Blended Portfolio 0.5%	Commodities 11.4%	Blended Portfolio 15.0%	Blended Portfolio -4.0%	Blended Portfolio 21.1%
Blended Portfolio 19.4%	Blended Portfolio 10.8%	Cash & Cash Alternatives 0.1%	Fixed Income 4.2%	Cash & Cash Alternatives 0.0%	Fixed Income 6.0%	Cash & Cash Alternatives 0.0%	Blended Portfolio 6.9%	Fixed Income 3.5%	US Equities -4.4%	Real Estate 19.5%
Commodities 18.7%	Non-US Equities 9.4%	Real Estate -2.2%	Real Estate 0.6%	Fixed Income -2.0%	Cash & Cash Alternatives 0.0%	Non-US Equities -2.6%	Non-US Equities 3.3%	Cash & Cash Alternatives 0.8%	Real Estate -7.6%	Fixed Income 8.7%
Fixed Income 5.9%	Fixed Income 6.5%	Non-US Equities -11.8%	Cash & Cash Alternatives 0.1%	Commodities -9.6%	Non-US Equities -3.9%	Real Estate -24.2%	Fixed Income 2.6%	Commodities 0.7%	Commodities -13.0%	Commodities 5.4%
Cash & Cash Alternatives 0.1%	Cash & Cash Alternatives 0.1%	Commodities -13.4%	Commodities -1.1%	Real Estate -25.8%	Commodities -17.0%	Commodities -24.7%	Cash & Cash Alternatives 0.3%	Real Estate -0.2%	Non-US Equities -13.6%	Cash & Cash Alternatives 2.2%

Blended Portfolio Allocation: 45% US Equity / 15% Non-US Equity / 40% Fixed Income

CAPITAL MARKETS | DOMESTIC EQUITY RETURNS

2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Mid Growth 41.1%	Mid Growth 30.6%	Large Growth 4.7%	Mid Value 18.5%	Small Growth 42.7%	Large Growth 14.9%	Large Growth 5.5%	Small Value 31.3%	Large Growth 27.4%	Large Growth 0.0%	Large Value 31.9%
Mid Blend 37.4%	Small Growth 28.0%	Small Growth 3.6%	Small Value 18.2%	Small Blend 41.3%	Large Blend 13.7%	Small Growth 2.8%	Small Blend 26.6%	Large Blend 21.8%	Small Growth -4.1%	Large Blend 31.5%
Mid Value 33.7%	Mid Blend 26.6%	Large Blend 2.1%	Mid Blend 17.9%	Small Value 40.0%	Large Value 12.4%	Mid Growth 2.0%	Mid Value 26.5%	Mid Growth 19.9%	Large Blend -4.4%	Large Growth 31.1%
Large Growth 31.6%	Small Blend 26.3%	Small Blend 1.0%	Large Value 17.7%	Mid Value 34.3%	Mid Value 12.1%	Large Blend 1.4%	Small Growth 22.2%	Mid Blend 16.2%	Small Blend -8.5%	Mid Growth 26.3%
Small Growth 28.4%	Small Value 24.7%	Large Value -0.5%	Mid Growth 17.3%	Mid Blend 33.5%	Mid Blend 9.8%	Small Blend -2.0%	Mid Blend 20.7%	Large Value 15.4%	Large Value -9.0%	Mid Blend 26.2%
Large Blend 26.5%	Mid Value 22.8%	Mid Growth -0.9%	Small Blend 16.3%	Mid Growth 32.8%	Mid Growth 7.6%	Mid Blend -2.2%	Large Value 17.4%	Small Growth 14.8%	Mid Growth -10.3%	Mid Value 26.1%
Small Blend 25.6%	Large Value 15.1%	Small Value -1.4%	Large Blend 16.0%	Large Growth 32.8%	Small Value 7.5%	Large Value -3.1%	Mid Growth 14.8%	Small Blend 13.2%	Mid Blend -11.1%	Small Value 24.5%
Small Value 22.8%	Large Blend 15.1%	Mid Blend -1.7%	Large Growth 14.6%	Large Blend 32.4%	Small Blend 5.8%	Mid Value -6.7%	Large Blend 12.0%	Mid Value 12.3%	Mid Value -11.9%	Small Blend 22.8%
Large Value 21.2%	Large Growth 15.1%	Mid Value -2.4%	Small Growth 14.6%	Large Value 32.0%	Small Growth 3.9%	Small Value -6.7%	Large Growth 6.9%	Small Value 11.5%	Small Value -12.6%	Small Growth 21.1%

CAPITAL MARKETS | FIXED INCOME RETURNS

2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
High Yield 58.2%	High Yield 15.1%	Long-Term Bond 17.1%	Emerging Market Bond 17.9%	High Yield 7.4%	Long-Term Bond 16.4%	Municipal 3.3%	High Yield 17.1%	Long-Term Bond 12.2%	T-Bill 1.8%	Long-Term Bond 21.9%
Emerging Market Bond 34.2%	Emerging Market Bond 12.8%	Municipal 10.7%	High Yield 15.8%	Agency 1.0%	Municipal 9.1%	Agency 1.8%	Long-Term Bond 10.2%	Emerging Market Bond 8.2%	Short-Term Bond 1.4%	Credit 12.6%
Long-Term Bond 16.8%	Long-Term Bond 10.7%	Treasury 9.8%	Long-Term Bond 12.7%	Short-Term Bond 0.3%	Credit 7.5%	MBS 1.5%	Emerging Market Bond 9.9%	Global Bond ex US 8.0%	Municipal 1.3%	High Yield 11.4%
Credit 16.0%	Credit 8.5%	Credit 8.4%	Credit 9.4%	T-Bill 0.0%	MBS 6.1%	Emerging Market Bond 1.3%	Credit 5.6%	High Yield 7.5%	Agency 1.1%	Emerging Market Bond 10.8%
Municipal 12.9%	Global Bond ex US 8.4%	Aggregate Bond 7.8%	Municipal 6.8%	US TIPS -0.9%	Aggregate Bond 6.0%	Treasury 0.8%	Aggregate Bond 2.6%	Credit 6.2%	MBS 1.0%	Aggregate Bond 8.5%
US TIPS 9.8%	Aggregate Bond 6.5%	Emerging Market Bond 7.0%	Aggregate Bond 4.2%	MBS -1.5%	Treasury 5.1%	Aggregate Bond 0.5%	Agency 2.6%	Municipal 5.4%	Treasury 0.9%	Treasury 7.7%
Aggregate Bond 5.9%	Treasury 5.9%	MBS 6.3%	MBS 2.6%	Credit -2.0%	Emerging Market Bond 4.8%	Short-Term Bond 0.4%	US TIPS 2.5%	Aggregate Bond 3.5%	US TIPS 0.7%	Municipal 6.7%
MBS 5.8%	MBS 5.4%	Global Bond ex US 6.1%	Treasury 2.0%	Aggregate Bond -2.0%	High Yield 2.5%	T-Bill 0.0%	Global Bond ex US 2.2%	Agency 2.9%	Aggregate Bond 0.0%	MBS 5.6%
Global Bond ex US 3.1%	US TIPS 2.7%	High Yield 5.0%	US TIPS 1.7%	Municipal -2.6%	Agency 1.0%	US TIPS -0.4%	MBS 1.7%	MBS 2.5%	Global Bond ex US -0.3%	Global Bond ex US 5.2%
Short-Term Bond 1.3%	Municipal 2.4%	US TIPS 2.6%	Agency 1.0%	Treasury -2.7%	Short-Term Bond 0.7%	Credit -0.8%	Treasury 1.0%	Treasury 2.3%	High Yield -2.1%	US TIPS 3.3%
Agency 1.0%	Short-Term Bond 2.4%	Short-Term Bond 1.5%	Short-Term Bond 0.3%	Emerging Market Bond -4.1%	T-Bill 0.0%	Global Bond ex US -3.6%	Short-Term Bond 0.6%	T-Bill 0.8%	Credit -2.1%	Short-Term Bond 2.9%
T-Bill 0.1%	Agency 1.0%	Agency 1.0%	T-Bill 0.1%	Long-Term Bond -6.6%	US TIPS -1.4%	High Yield -4.5%	T-Bill 0.3%	US TIPS 0.4%	Emerging Market Bond -2.5%	T-Bill 1.8%
Treasury -3.6%	T-Bill 0.1%	T-Bill 0.1%	Global Bond ex US -0.6%	Global Bond ex US -7.1%	Global Bond ex US -3.5%	Long-Term Bond -4.6%	Municipal 0.2%	Short-Term Bond 0.3%	Long-Term Bond -6.8%	Agency 1.0%

CAPITAL MARKETS | INTERNATIONAL EQUITY RETURNS

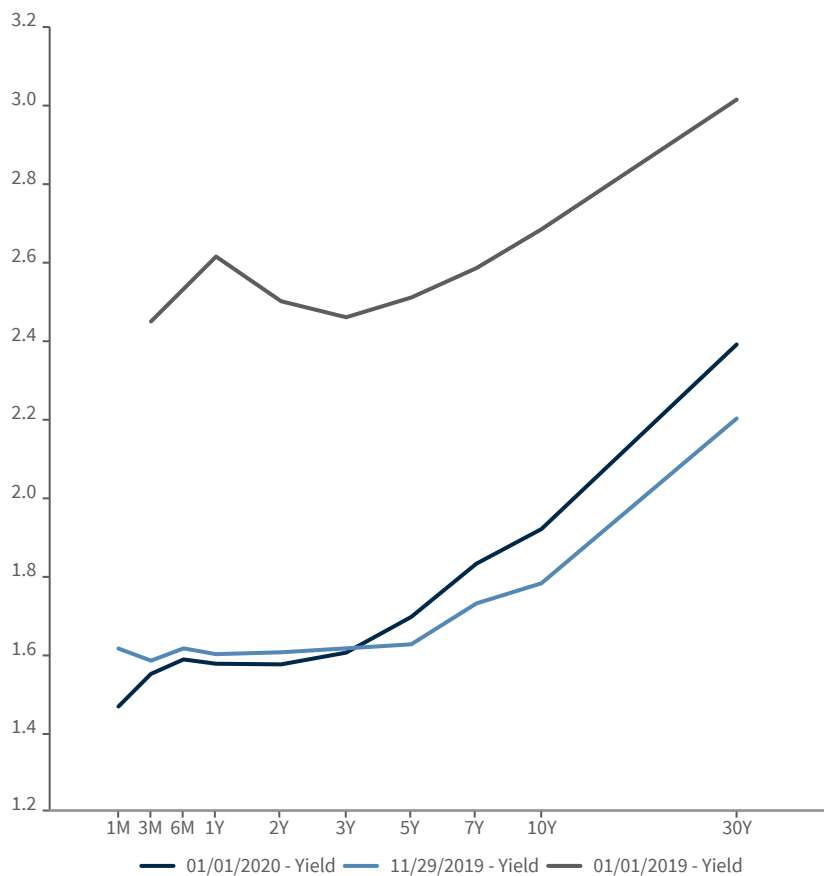
2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
EM Latin America 104.2%	EM Asia 19.4%	US Large Cap 2.1%	Pacific ex Japan 24.7%	US Large Cap 32.4%	US Large Cap 13.7%	Japan 9.9%	EM Eastern Europe 38.8%	EM Asia 43.3%	EM Eastern Europe -3.4%	EM Eastern Europe 35.6%
EM Eastern Europe 84.3%	Emerging Markets 19.2%	United Kingdom -2.5%	EM Asia 21.2%	Europe ex UK 28.7%	EM Asia 5.3%	US Large Cap 1.4%	EM Latin America 31.5%	Emerging Markets 37.8%	US Large Cap -4.4%	US Large Cap 31.5%
Emerging Markets 79.0%	Pacific ex Japan 17.1%	Developed Markets -11.7%	Europe ex UK 22.5%	Japan 27.3%	Pacific ex Japan -0.3%	Europe ex UK 0.1%	US Large Cap 12.0%	Europe ex UK 27.8%	EM Latin America -6.2%	Europe ex UK 25.9%
Pacific ex Japan 73.0%	EM Eastern Europe 16.3%	Pacific ex Japan -12.7%	EM Eastern Europe 18.7%	Developed Markets 23.3%	Emerging Markets -1.8%	Developed Markets -0.4%	Emerging Markets 11.6%	Pacific ex Japan 26.0%	Pacific ex Japan -10.2%	Developed Markets 22.7%
EM Asia 72.5%	Japan 15.6%	Japan -14.2%	Emerging Markets 18.6%	United Kingdom 20.7%	Japan -3.7%	EM Eastern Europe -4.0%	Pacific ex Japan 8.0%	Developed Markets 25.6%	Japan -12.6%	United Kingdom 21.1%
United Kingdom 43.4%	US Large Cap 15.1%	Europe ex UK -14.5%	Developed Markets 17.9%	Pacific ex Japan 5.6%	Developed Markets -4.5%	United Kingdom -7.5%	EM Asia 6.5%	Japan 24.4%	Developed Markets -13.4%	Japan 20.1%
Europe ex UK 33.9%	EM Latin America 14.9%	EM Asia -17.2%	US Large Cap 16.0%	EM Asia 2.3%	United Kingdom -5.4%	Pacific ex Japan -8.4%	Japan 2.7%	EM Latin America 24.2%	United Kingdom -14.1%	EM Asia 19.7%
Developed Markets 32.5%	United Kingdom 8.8%	Emerging Markets -18.2%	United Kingdom 15.3%	EM Eastern Europe 1.4%	Europe ex UK -5.8%	EM Asia -9.5%	Developed Markets 1.5%	United Kingdom 22.4%	Emerging Markets -14.2%	Emerging Markets 18.9%
US Large Cap 26.5%	Developed Markets 8.2%	EM Latin America -19.1%	EM Latin America 8.9%	Emerging Markets -2.3%	EM Latin America -12.0%	Emerging Markets -14.6%	Europe ex UK 0.3%	US Large Cap 21.8%	Europe ex UK -14.4%	Pacific ex Japan 18.5%
Japan 6.4%	Europe ex UK 2.4%	EM Eastern Europe -21.3%	Japan 8.4%	EM Latin America -13.2%	EM Eastern Europe -37.1%	EM Latin America -30.8%	United Kingdom 0.0%	EM Eastern Europe 18.1%	EM Asia -15.2%	EM Latin America 17.9%

CAPITAL MARKETS | S&P EQUITY SECTOR RETURNS

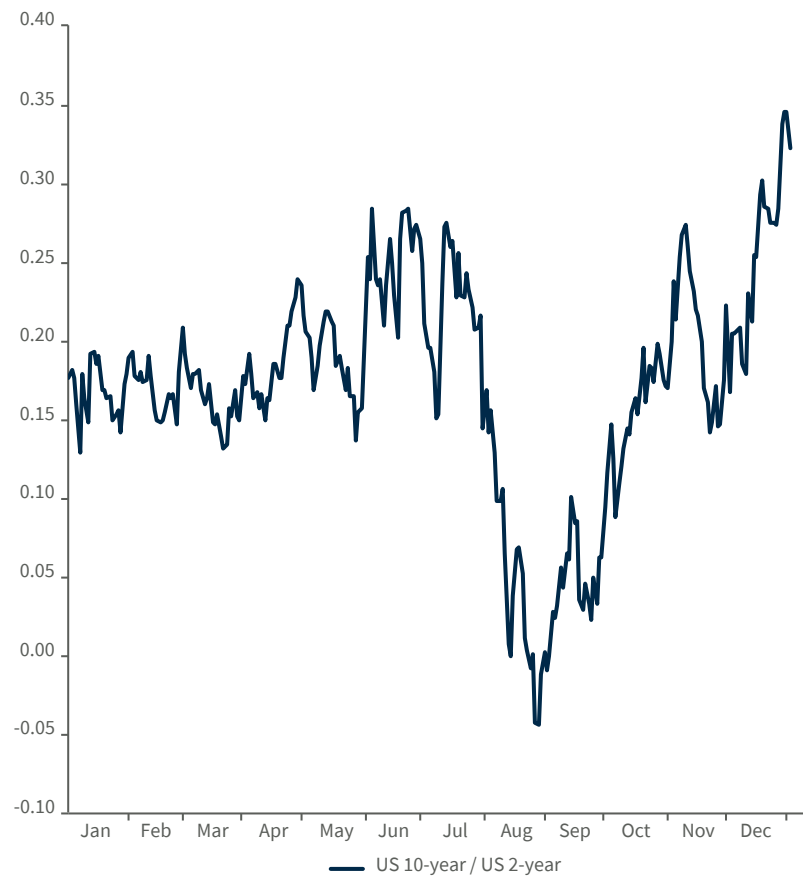
2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Information Technology 61.7%	Real Estate 32.3%	Utilities 20.0%	Financials 28.8%	Consumer Discretionary 43.1%	Real Estate 30.2%	Consumer Discretionary 10.1%	Energy 27.4%	Information Technology 38.8%	Health Care 6.5%	Information Technology 50.3%
Materials 48.6%	Consumer Discretionary 27.7%	Consumer Staples 14.0%	Consumer Discretionary 23.9%	Health Care 41.5%	Utilities 29.0%	Health Care 6.9%	Comm Services 23.5%	Materials 23.8%	Utilities 4.1%	Comm Services 32.7%
Consumer Discretionary 41.3%	Industrials 26.7%	Health Care 12.7%	Real Estate 19.7%	Industrials 40.7%	Health Care 25.3%	Consumer Staples 6.6%	Financials 22.8%	Consumer Discretionary 23.0%	Consumer Discretionary 0.8%	Financials 32.1%
Real Estate 27.1%	Materials 22.2%	Real Estate 11.4%	Comm Services 18.3%	Financials 35.6%	Information Technology 20.1%	Information Technology 5.9%	Industrials 18.9%	Financials 22.2%	Information Technology -0.3%	S&P 500 31.5%
S&P 500 26.5%	Energy 20.5%	Comm Services 6.3%	Health Care 17.9%	S&P 500 32.4%	Consumer Staples 16.0%	Real Estate 4.7%	Materials 16.7%	Health Care 22.1%	Real Estate -2.2%	Industrials 29.4%
Industrials 20.9%	Comm Services 19.0%	Consumer Discretionary 6.1%	S&P 500 16.0%	Information Technology 28.4%	Financials 15.2%	Comm Services 3.4%	Utilities 16.3%	S&P 500 21.8%	S&P 500 -4.4%	Real Estate 29.0%
Health Care 19.7%	S&P 500 15.1%	Energy 4.7%	Industrials 15.3%	Consumer Staples 26.1%	S&P 500 13.7%	S&P 500 1.4%	Information Technology 13.8%	Industrials 21.0%	Consumer Staples -8.4%	Consumer Discretionary 27.9%
Financials 17.2%	Consumer Staples 14.1%	Information Technology 2.4%	Materials 15.0%	Materials 25.6%	Industrials 9.8%	Financials -1.5%	S&P 500 12.0%	Consumer Staples 13.5%	Comm Services -12.5%	Consumer Staples 27.6%
Consumer Staples 14.9%	Financials 12.1%	S&P 500 2.1%	Information Technology 14.8%	Energy 25.1%	Consumer Discretionary 9.7%	Industrials -2.5%	Consumer Discretionary 6.0%	Utilities 12.1%	Financials -13.0%	Utilities 26.3%
Energy 13.8%	Information Technology 10.2%	Industrials -0.6%	Consumer Staples 10.8%	Utilities 13.2%	Materials 6.9%	Utilities -4.8%	Consumer Staples 5.4%	Real Estate 10.8%	Industrials -13.3%	Materials 24.6%
Utilities 11.9%	Utilities 5.5%	Materials -9.8%	Energy 4.6%	Comm Services 11.5%	Comm Services 3.0%	Materials -8.4%	Real Estate 3.4%	Energy -1.0%	Materials -14.7%	Health Care 20.8%
Comm Services 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%	Comm Services -1.3%	Energy -18.1%	Energy 11.8%

CAPITAL MARKETS | US TREASURIES

US Yield Curve



US 10-Year / US 2-Year Yield Curve



CAPITAL MARKETS | FIXED INCOME YIELDS



1.75%

Year End 10-Year
Treasury Yield Target



\$11.5 Trillion

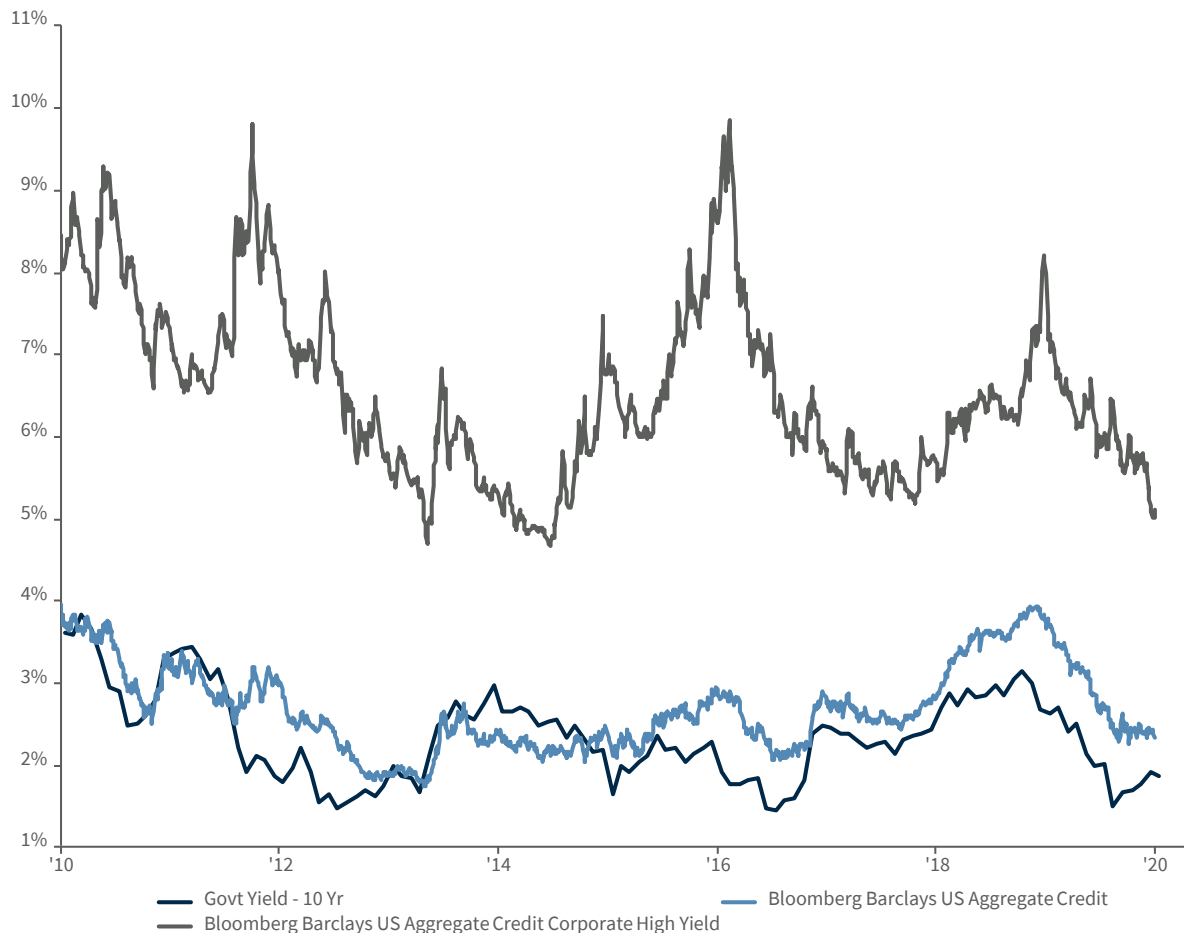
Dollar Value of Global
Negative-Yielding Debt



2.2%?

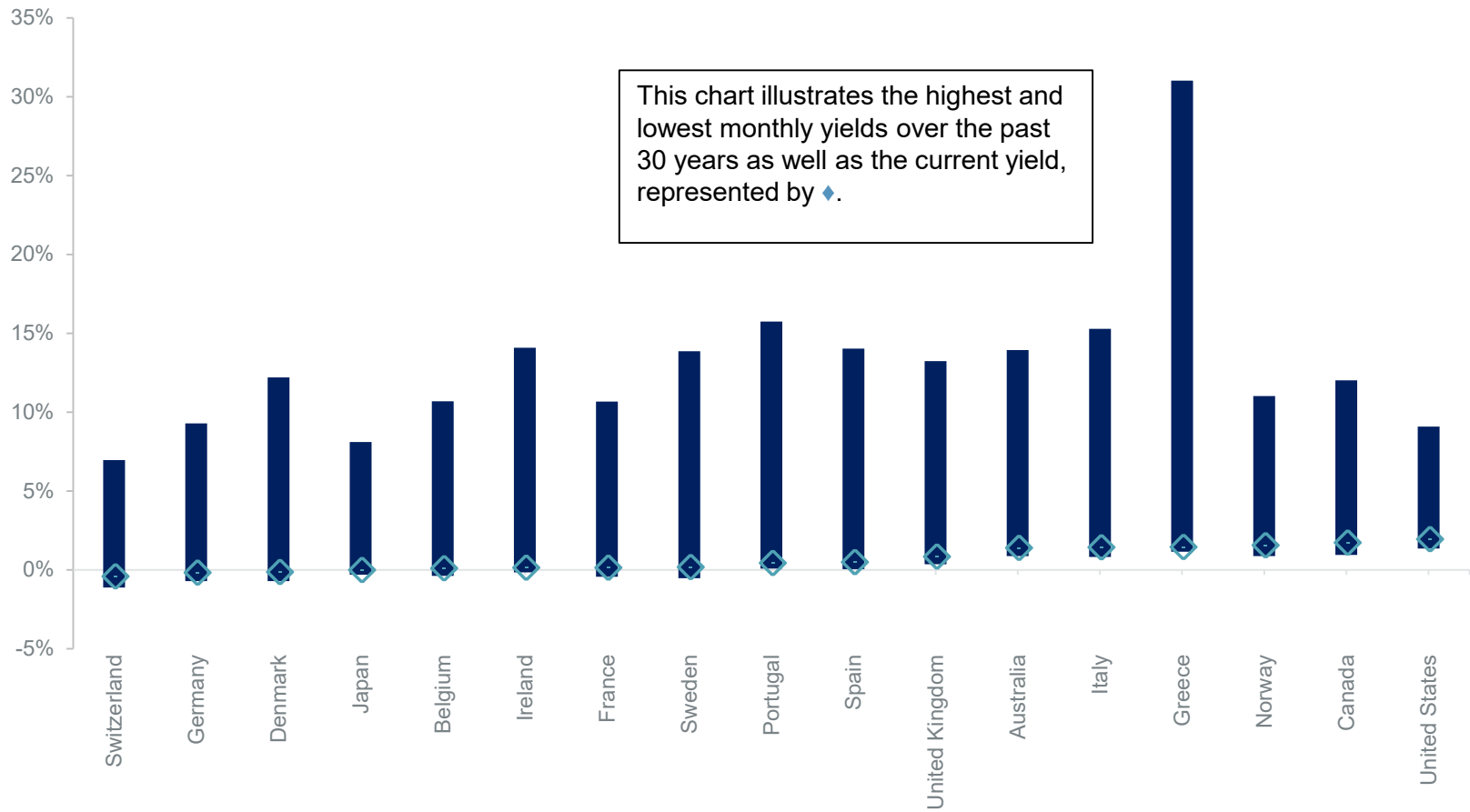
Record Low Inflation
Expectations

US Yield-to-Worst

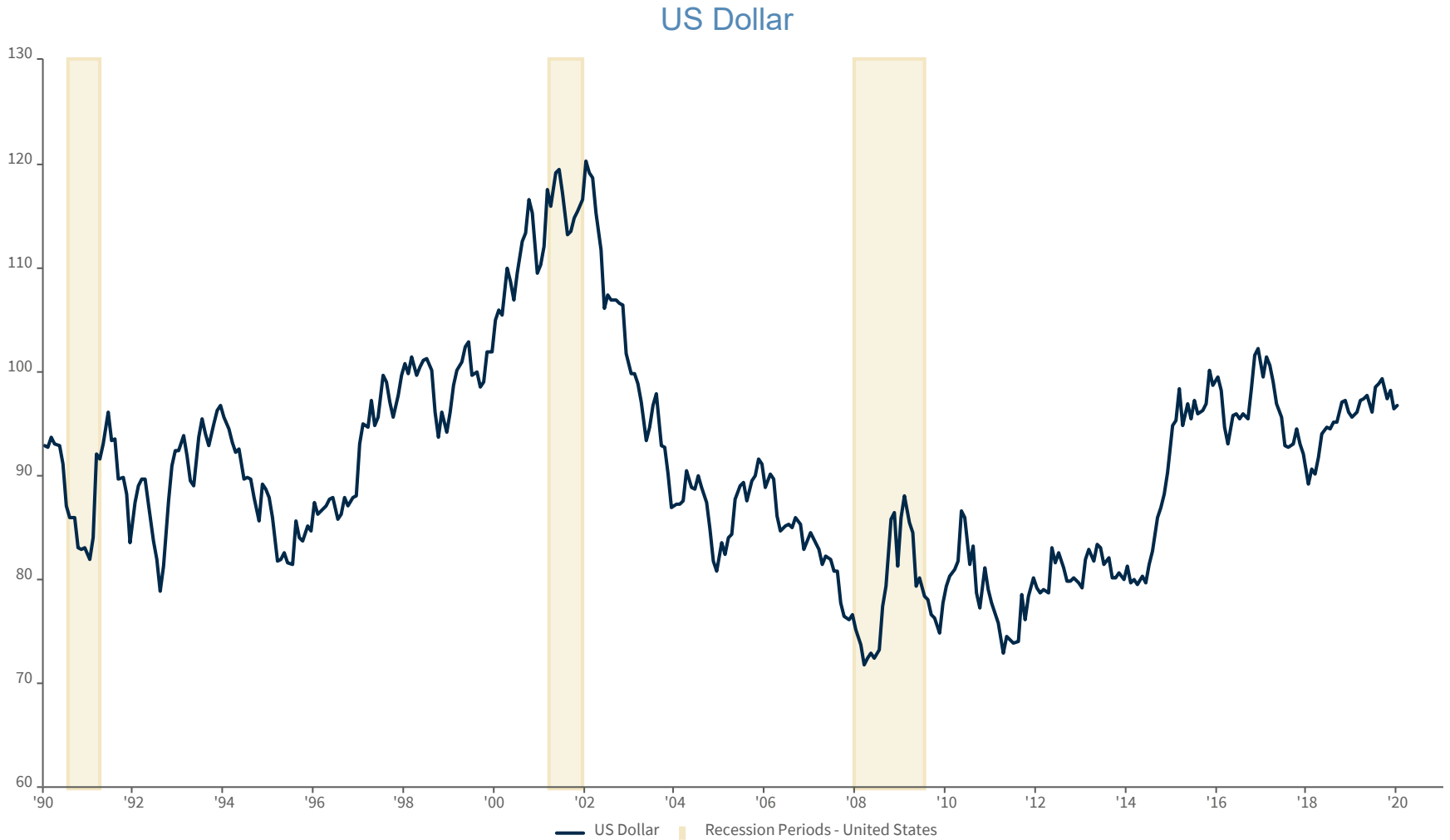


CAPITAL MARKETS | GLOBAL SOVEREIGN DEBT YIELDS

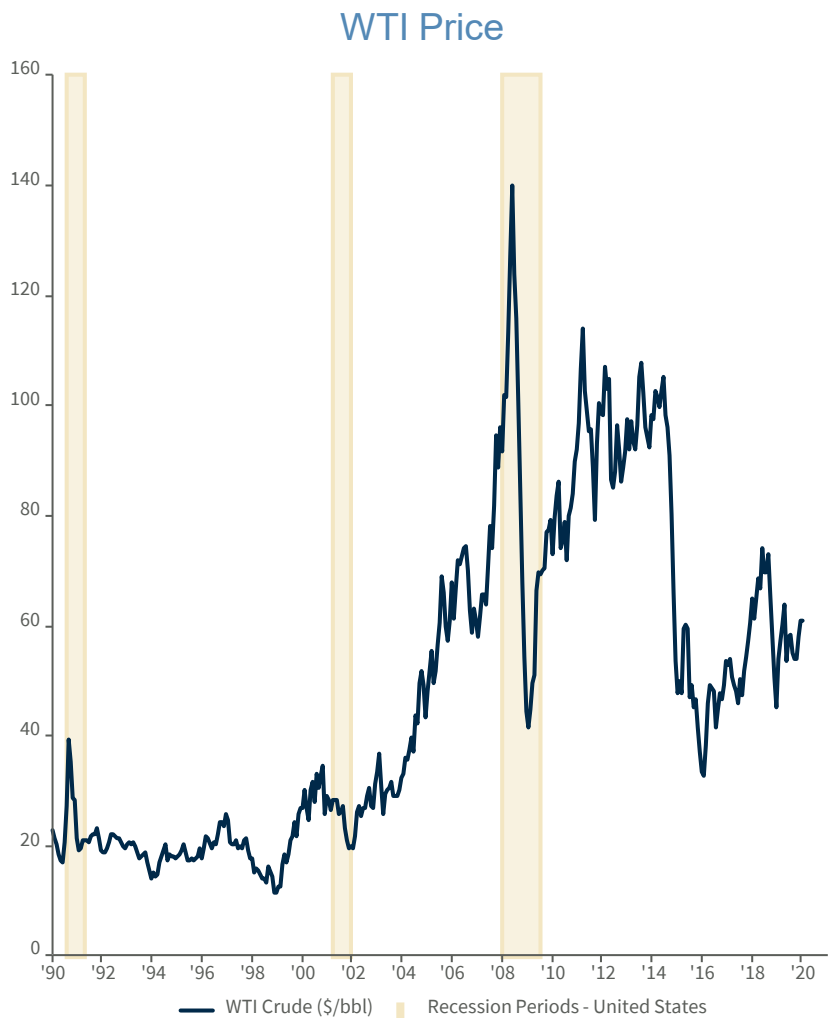
10-year Sovereign Debt Yields



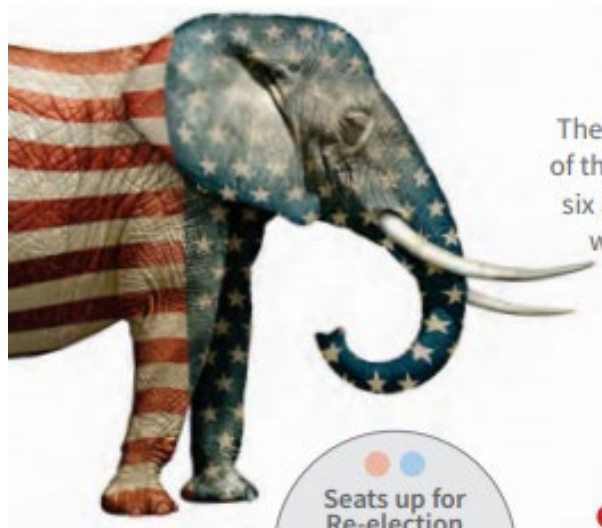
CAPITAL MARKETS | FOREIGN EXCHANGE RATES



CAPITAL MARKETS | COMMODITY PRICES



QUARTERLY TOPICS | THE SENATE



The Senate

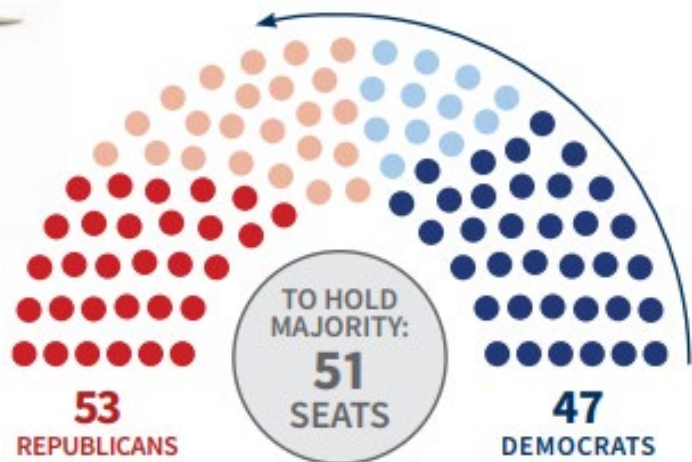
The Republicans currently hold the majority. One third of the Senate is up for reelection in 2020. Of these seats, six are considered to be competitive seats. Democrats would need to net four seats to secure a majority.



Seats up for Re-election

6 Competitive Seats

Alabama	Maine
Colorado	North Carolina
Arizona	Iowa

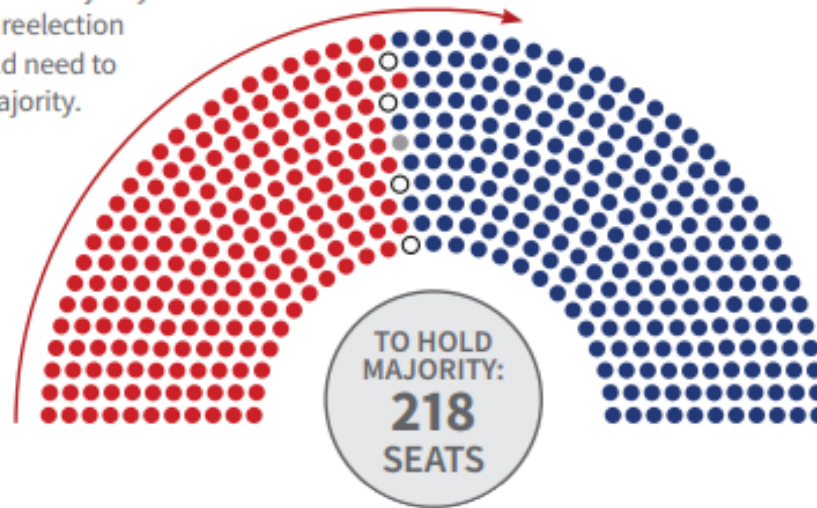


4 SEATS NEEDED
for Democrats to flip control

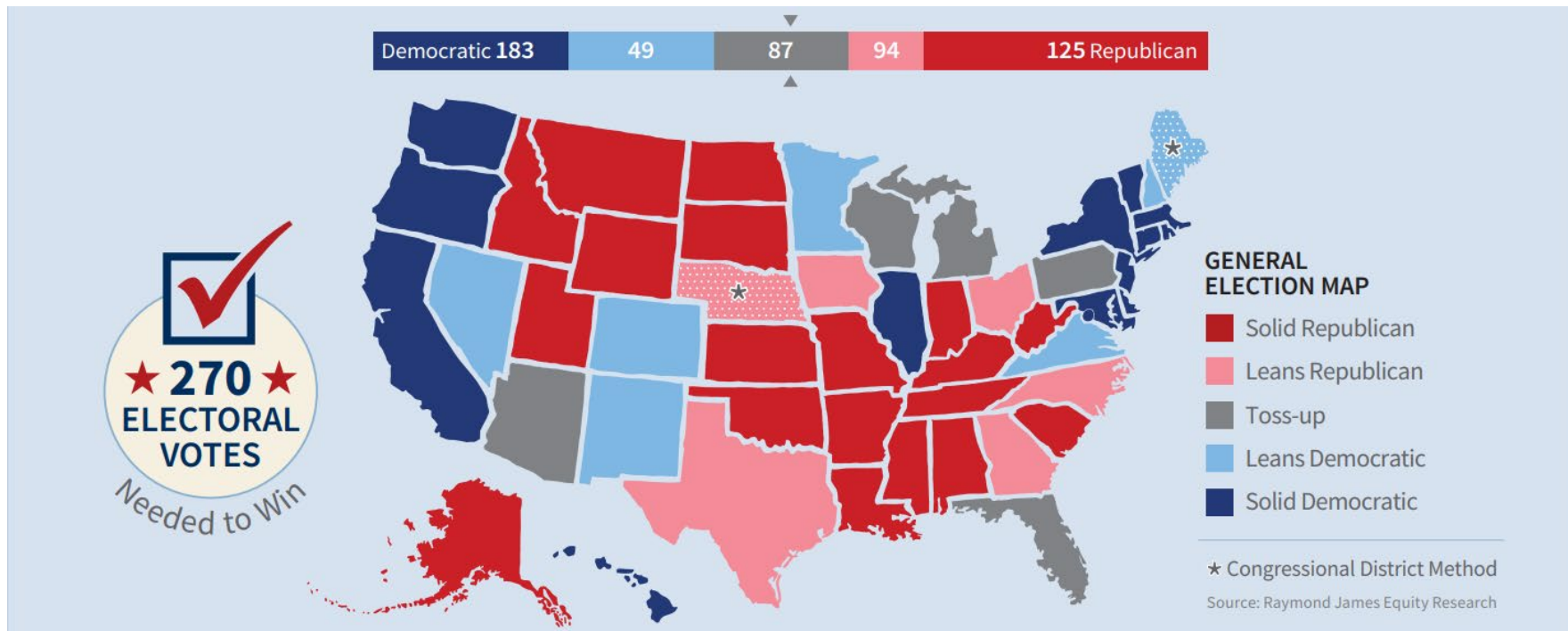
QUARTERLY TOPICS | THE HOUSE

The House of Representatives

Democrats currently hold the majority. The entire House is up for reelection in 2020. Republicans would need to net 20 seats to secure a majority.



QUARTERLY TOPICS | PRESIDENTIAL ELECTION



QUARTERLY TOPICS | CAUGHT IN THE VORTEX

Caught in the Vortex

The trade war between the US and China has caused collateral damage abroad, with many developed economies caught in the crossfire. However, recent positive progress remains encouraging.



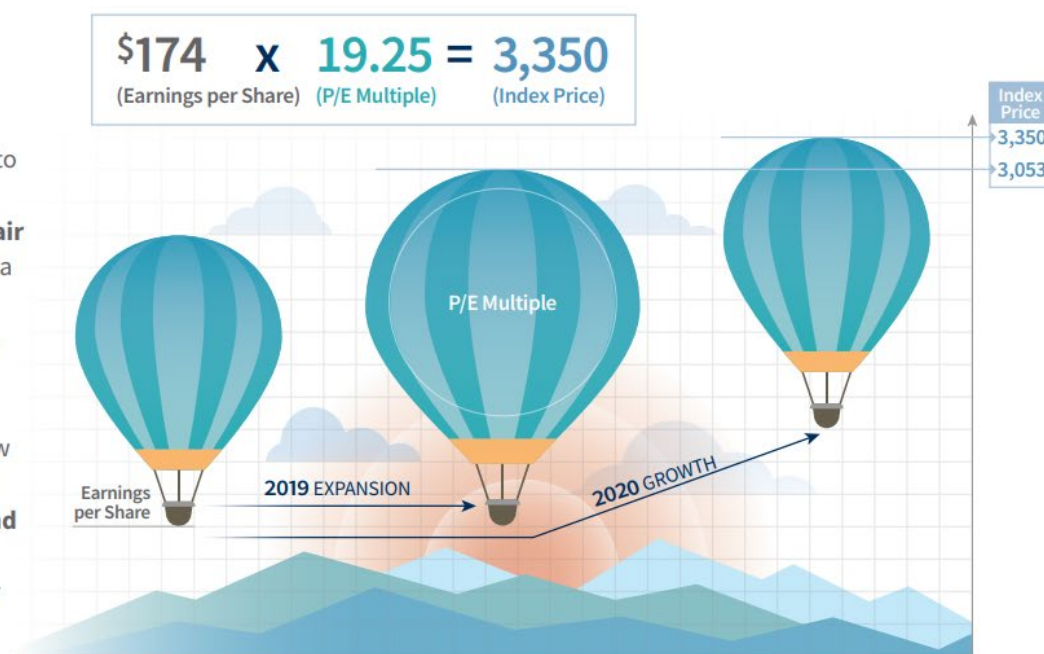
QUARTERLY TOPICS | PRICE TO EARNINGS MULTIPLE EXPLAINED

The Price to Earnings (P/E) Multiple Explained

When determining the price of an equity index (e.g., the S&P 500 Index), two variables are taken into account: earnings and the price to earnings (P/E) multiple. When earnings are multiplied by the P/E multiple, the product is the price of the index.

2019 The price of the S&P 500 increased even though earnings remained relatively flat. This was due to an expansion of the P/E multiple. **One can think of the P/E multiple as the air in a hot air balloon** - it can expand to a larger size and bring the top of the balloon to a higher level, even though the basket remains in the same place.

2020 Earnings are expected to grow at a higher rate than they had in 2019. **One can think of earnings as the wind that lifts a hot air balloon** - when it rises, so too does the top of the hot air balloon, bringing it to a higher level.


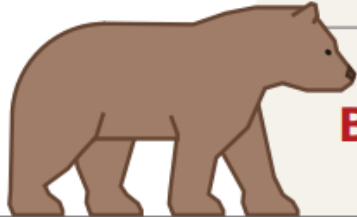


In both cases, one can think of the top of the hot air balloon as the index price.

In 2019, the top of the balloon rose because the hot air (P/E multiple) expanded.

In 2020, we expect the top of the balloon to rise because earnings will grow.

QUARTERLY TOPICS | 2020 YEAR-END OUTLOOK

	S&P 500	EPS ESTIMATE	P/E	PRICE	SCENARIO ODDS
	Bull Case	\$177	20.5x	3,628	20%
	Base Case	\$174	19.25x	3,350	70%
	Bear Case	\$165	16x	2,640	10%

ASSET CLASS	BENCHMARK
Cash & Cash Alternatives	Bloomberg Barclays US Treasury - Bills (1-3 M)
Fixed Income	Bloomberg Barclays US Aggregate
US Equities	S&P 500 (TR)
World Equities	MSCI World ex USA
Commodities	Bloomberg Commodity Index
Real Estate	FTSE EPRA/NAREIT United States
Materials	S&P 500 (TR) / Materials - SEC
Industrials	S&P 500 (TR) / Industrials - SEC
Comm Services	S&P 500 (TR) / Communication Services - SEC
Utilities	S&P 500 (TR) / Utilities - SEC
Consumer Discretionary	S&P 500 (TR) / Consumer Discretionary - SEC
Consumer Staples	S&P 500 (TR) / Consumer Staples - SEC
Health Care	S&P 500 (TR) / Health Care - SEC
Information Technology	S&P 500 (TR) / Information Technology - SEC
Energy	S&P 500 (TR) / Energy - SEC
Financials	S&P 500 (TR) / Financials - SEC
Real Estate	S&P 500 (TR) / Real Estate - IG
S&P 500	S&P 500 (TR)
Large Value	S&P 500 Value
Large Blend	S&P 500
Large Growth	S&P 500 Growth
Mid Value	S&P Mid Cap 400 Value
Mid Blend	S&P Mid Cap 400
Mid Growth	S&P Mid Cap 400 Growth
Small Value	S&P Small Cap 600 Value

ASSET CLASS	BENCHMARK
Small Blend	S&P Small Cap 600
Small Growth	S&P Small Cap 600 Growth
US Large Cap	S&P 500
EM Eastern Europe	MSCI EM Eastern Europe
Europe ex UK	MSCI Europe ex UK
Developed Markets	MSCI EAFE
United Kingdom	MSCI United Kingdom
Japan	MSCI Japan
EM Latin America	MSCI EM Latin America
Emerging Markets	MSCI EM (Emerging Markets)
EM Asia	MSCI EM Asia
Pacific ex Japan	MSCI Pacific ex JP
Long-Term Bond	Bloomberg Barclays US Aggregate Credit - Long
High Yield	Bloomberg Barclays US High Yield - Corporate
Aggregate Bond	Bloomberg Barclays US Aggregate
Credit	Bloomberg Barclays US Aggregate Credit
Emerging Market Bond	Bloomberg Barclays Emerging Markets USD Aggregate
Treasury	Bloomberg Barclays US Aggregate Government - Treasury
Municipal	Bloomberg Barclays Municipal Bond
Agency	Bloomberg Barclays US Agency CMBS
MBS	Bloomberg Barclays MBS 1000
Global Bond ex US	Bloomberg Barclays Global G6 (G7 x US)
US TIPS	Bloomberg Barclays US TIPS (1-3 Y)
Short-Term Bond	Bloomberg Barclays US Treasury Bellwethers (2 Y)
T-Bill	Bloomberg Barclays US Treasury - Bills (1-3 M)

DISCLOSURES

INTERNATIONAL INVESTING | International investing involves additional risks such as currency fluctuations, differing financial accounting standards, and possible political and economic instability. These risks are greater in emerging markets.

SECTORS | Sector investments are companies engaged in business related to a specific economic sector and are presented herein for illustrative purposes only and should not be considered as the sole basis for an investment decision. Sectors are subject to fierce competition and their products and services may be subject to rapid obsolescence. There are additional risks associated with investing in an individual sector, including limited diversification.

OIL | Investing in oil involves special risks, including the potential adverse effects of state and federal regulation and may not be suitable for all investors.

CURRENCIES | Currencies investing are generally considered speculative because of the significant potential for investment loss. Their markets are likely to be volatile and there may be sharp price fluctuations even during periods when prices overall are rising.

GOLD | Gold is subject to the special risks associated with investing in precious metals, including but not limited to: price may be subject to wide fluctuation; the market is relatively limited; the sources are concentrated in countries that have the potential for instability; and the market is unregulated.

FIXED INCOME | Fixed-income securities (or “bonds”) are exposed to various risks including but not limited to credit (risk of default of principal and interest payments), market and liquidity, interest rate, reinvestment, legislative (changes to the tax code), and call risks. There is an inverse relationship between interest rate movements and fixed income prices. Generally, when interest rates rise, fixed income prices fall and when interest rates fall, fixed income prices generally rise.

US TREASURIES | US Treasury securities are guaranteed by the US government and, if held to maturity, generally offer a fixed rate of return and guaranteed principal value.

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DATA SOURCES

FactSet and Bloomberg.

DOMESTIC EQUITY DEFINITION

LARGE GROWTH | Russell 1000 Growth Total Return Index: This index represents a segment of the Russell 1000 Index with a greater-than-average growth orientation. Companies in this index have higher price-to-book and price-earnings ratios, lower dividend yields and higher forecasted growth values. This index includes the effects of reinvested dividends.

SMALL GROWTH | Russell 2000 Growth Total Return Index: This index represents a segment of the Russell 2000 Index with a greater-than-average growth orientation. The combined market capitalization of the Russell 2000 Growth and Value Indices will add up to the total market cap of the Russell 2000.

LARGE BLEND | Russell 1000 Total Return Index: This index represents the 1000 largest companies in the Russell 3000 Index. This index is highly correlated with the S&P 500 Index. This index includes the effects of reinvested dividends.

SMALL BLEND | Russell 2000 Total Return Index: This index covers 2000 of the smallest companies in the Russell 3000 Index, which ranks the 3000 largest US companies by market capitalization. The Russell 2000 represents approximately 10% of the Russell 3000 total market capitalization. This index includes the effects of reinvested dividends.

LARGE VALUE | Russell 1000 Value Total Return Index: This index represents a segment of the Russell 1000 Index with a less-than-average growth orientation. Companies in this index have low price-to-book and price-earnings ratios, higher dividend yields and lower forecasted growth values. This index includes the effects of reinvested dividends.

SMALL VALUE | Russell 2000 Value Total Return Index: This index represents a segment of the Russell 2000 Index with a less-than-average growth orientation. The combined market capitalization of the Russell 2000 Growth and Value Indices will add up to the total market cap of the Russell 2000. This index includes the effects of reinvested dividends.

FIXED INCOME DEFINITION

AGGREGATE BOND | Bloomberg Barclays US Agg Bond Total Return Index: The index is a measure of the investment grade, fixed-rate, taxable bond market of roughly 6,000 SEC-registered securities with intermediate maturities averaging approximately 10 years. The index includes bonds from the Treasury, Government-Related, Corporate, MBS, ABS, and CMBS sectors.

MUNICIPAL | Bloomberg Barclays Municipal Total Return Index: The index is a measure of the long-term tax-exempt bond market with securities of investment grade (rated at least Baa by Moody's Investors Service and BBB by Standard and Poor's). This index has four main sectors: state and local general obligation bonds, revenue bonds, insured bonds, and prerefunded bonds.

US INDEXES AND EQUITY SECTORS DEFINITION

DOW JONES INDUSTRIAL AVERAGE (DJIA) | The Dow Jones Industrial Average (DJIA) is an index that tracks 30 large, publicly-owned companies trading on the New York Stock Exchange (NYSE) and the NASDAQ.

S&P 500 | The S&P 500 Total Return Index: The index is widely regarded as the best single gauge of large-cap U.S. equities. There is over USD 7.8 trillion benchmarked to the index, with index assets comprising approximately USD 2.2 trillion of this total. The index includes 500 leading companies and captures approximately 80% coverage of available market capitalization.

INTERNATIONAL EQUITY DEFINITION

EMERGING MARKETS EASTERN EUROPE | MSCI EM Eastern Europe Net Return Index: The index captures large- and mid-cap representation across four Emerging Markets (EM) countries in Eastern Europe. With 50 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in each country.

BLOOMBERG BARCLAYS CAPITAL AGGREGATE BOND TOTAL RETURN INDEX | This index represents securities that are SEC-registered, taxable, and dollar denominated. The index covers the U.S. investment grade fixed rate bond market, with index components for government and corporate securities, mortgage pass-through securities, and asset-backed securities. The index is designed to minimize concentration in any one commodity or sector. It currently has 22 commodity futures in seven sectors. No one commodity can compose less than 2% or more than 15% of the index, and no sector can represent more than 33% of the index (as of the annual weightings of the components).

EMERGING MARKETS ASIA | MSCI EM Asia Net Return Index: The index captures large- and mid-cap representation across eight Emerging Markets countries. With 554 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in each country.

EMERGING MARKETS LATIN AMERICA | MSCI EM Latin America Net Return Index: The index captures large- and mid-cap representation across five Emerging Markets (EM) countries in Latin America. With 116 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in each country.

EMERGING MARKETS | MSCI Emerging Markets Net Return Index: This index consists of 23 countries representing 10% of world market capitalization. The index is available for a number of regions, market segments/sizes and covers approximately 85% of the free float-adjusted market capitalization in each of the 23 countries.

PACIFIC EX-JAPAN | MSCI Pacific Ex Japan Net Return Index: The index captures large- and mid-cap representation across four of 5 Developed Markets (DM) countries in the Pacific region (excluding Japan). With 150 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in each country.

JAPAN | MSCI Japan Net Return Index: The index is designed to measure the performance of the large and mid cap segments of the Japanese market. With 319 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in Japan.

FOREIGN DEVELOPED MARKETS | MSCI EAFE Net Return Index: This index is designed to represent the performance of large and mid-cap securities across 21 developed markets, including countries in Europe, Australasia and the Far East, excluding the U.S. and Canada. The index is available for a number of regions, market segments/sizes and covers approximately 85% of the free float-adjusted market capitalization in each of the 21 countries.

EUROPE EX UK | MSCI Europe Ex UK Net Return Index: The index captures large and mid cap representation across 14 Developed Markets (DM) countries in Europe. With 337 constituents, the index covers approximately 85% of the free float-adjusted market capitalization across European Developed Markets excluding the UK.

MSCI EAFE | The MSCI EAFE (Europe, Australasia, and Far East) is a free float-adjusted market capitalization index that is designed to measure developed market equity performance, excluding the United States & Canada. The EAFE consists of the country indices of 22 developed nations.

COMMODITY DEFINITIONS

[US DOLLAR INDEX](#) | The US dollar index (USDX) is a measure of the value of the US dollar relative to the value of a basket of currencies of the majority of the US's most significant trading partners. This index is similar to other trade-weighted indexes, which also use the exchange rates from the same major currencies.

[BLOOMBERG BARCLAYS COMMODITY INDEX](#) | Bloomberg Barclays Commodity Index is a commodity group sub index of the Bloomberg CINTR. The index is composed of futures contracts on crude oil, heating oil, unleaded gasoline and natural gas. It reflects the return on fully collateralized futures positions and is quoted in USD.

[BLOOMBERG INDUSTRIAL METALS INDEX](#) | Bloomberg Industrial Metals Index is composed of futures contracts on aluminum, copper, nickel and zinc. It reflects the return of underlying commodity futures price movements only. It is quoted in USD.

[BLOOMBERG SOFTS INDEX](#) | Bloomberg Softs Index is a commodity group sub index of the Bloomberg CI. It is composed of futures contracts on coffee, cotton and sugar. It reflects the return of underlying commodity futures price movements only and is quoted in USD.

[BLOOMBERG PRECIOUS METALS INDEX](#) | Bloomberg Precious Metals index is a commodity group sub index of the Bloomberg CI. It is composed of futures contracts on gold and silver. It reflects the return of underlying commodity futures price movements only and is quoted in USD.

[BLOOMBERG GRAINS INDEX](#) | Bloomberg Grains Index is a commodity group subindex of the Bloomberg CI. It is composed of futures contracts on corn, soybeans and wheat. It reflects the return of underlying commodity futures price movements only and is quoted in USD.

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DATA SOURCE:

FactSet



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