

Guide to the Markets®

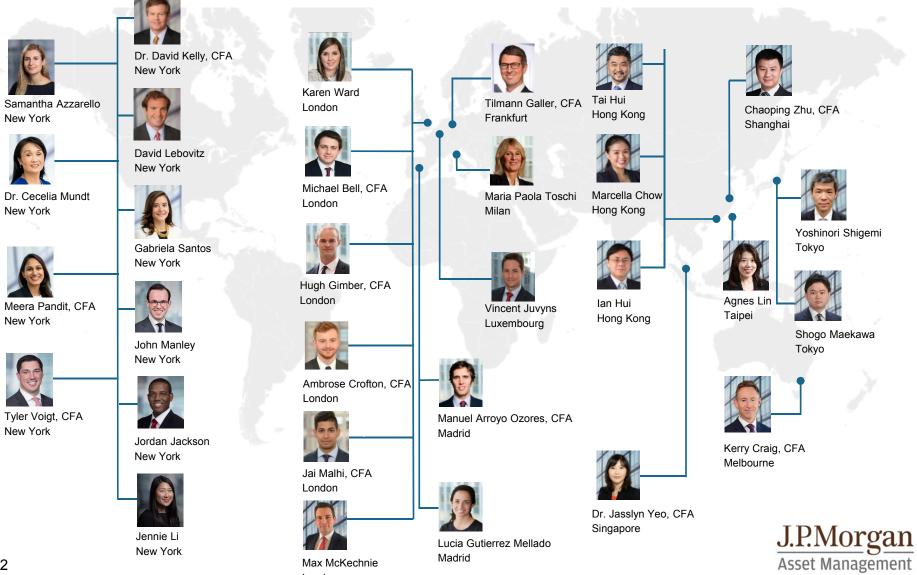
U.S. | 3Q 2020 | As of June 30, 2020





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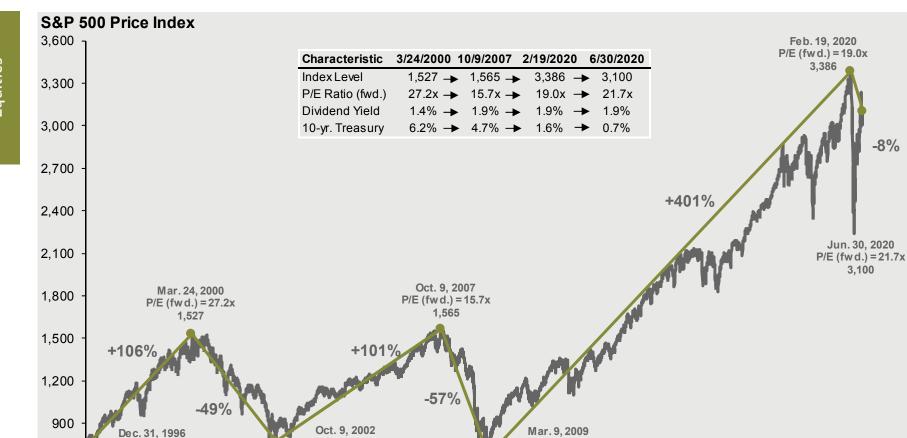


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54. Global inflation

S&P 500 Index at inflection points



P/E (fw d.) = 10.3x

'11

'13

'14

'15

'16

'17

'12

677

'10

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

'02

'01

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 June 30, 2020.

'05

'06

'07

'08

'09

P/E (fw d.) = 14.1x

777

'04

'03



'19

'18

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4

-8%

600

'96

P/E (fw d.) = 16.0x

741

'98

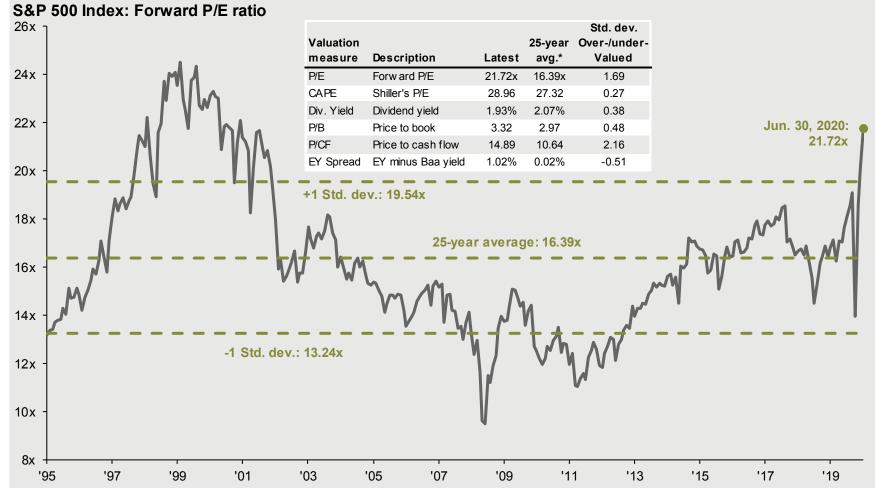
'97

'99

'00

S&P 500 valuation measures

5



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 July 1995, and FactSet for June 30, 2020. Current next 12-months consensus earnings estimates are \$143. Average P/E and standard deviations are calculated using 25 years of IBES 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-months 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



Equities

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average and standard deviation over 25 years for each measure. *Guide to the Markets – U.S.* Data are as of June 30, 2020.

P/E ratios and equity returns

Forward P/E and subsequent 1-yr. returns Forward P/E and subsequent 5-yr. annualized returns S&P 500 Total Return Index S&P 500 Total Return Index 60% -60% -40% 40% 20% 20% 0% 0% -20% -20% Jun. 30, 2020: 21.7 Jun. 30, 2020: 21.7x -40% -40% $R^2 = 9\%$ $R^2 = 45\%$ -60% -60% 8.0x 11.0x 14.0x 17.0x 20.0x 8.0x 11.0x 14.0x 20.0x 23.0x 23.0x 17.0x

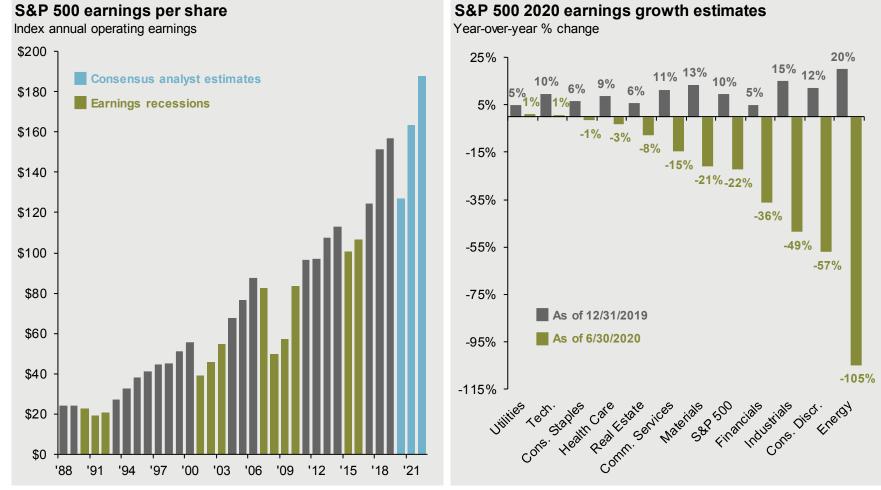
Source: FactSet, Standard & Poor's, Thomson Reuters, J.P. Morgan Asset Management. Returns are 12-month and 60-month annualized total returns, measured monthly, beginning June 30, 1995. R² represents the percent of total variation in total returns that can be explained by forward P/E ratios. *Guide to the Markets – U.S.* Data are as of June 30, 2020.



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Corporate profits

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Source: Compustat, FactSet, Standard & Poor's, J.P. Morgan Asset Management. Historical EPS levels are based on annual operating earnings per share. Earnings estimates are based on estimates from FactSet Market Aggregates. Past performance is not indicative of future returns. *Guide to the Markets – U.S.* Data are as of June 30, 2020.

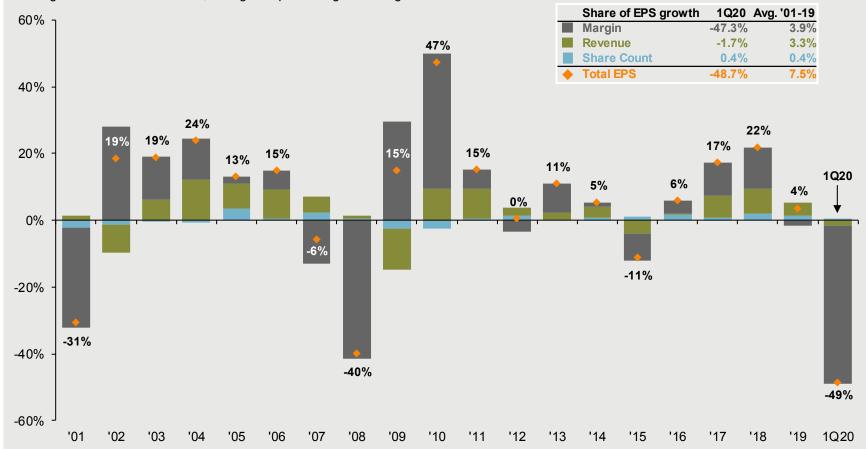


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Sources of earnings per share growth

S&P 500 year-over-year operating EPS growth

Annual growth broken into revenue, changes in profit margin & changes in share count



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

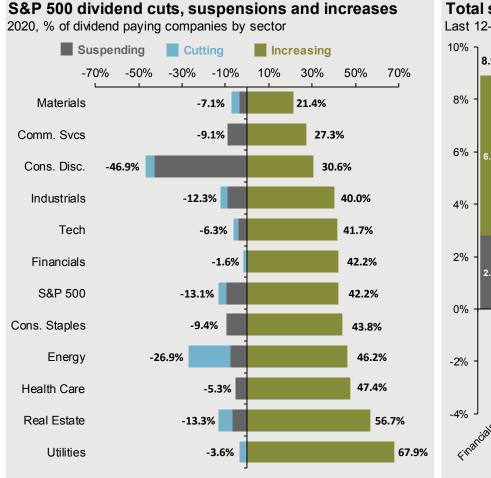
EPS levels are based on annual operating earnings per share. Percentages may not sum due to rounding. Past performance is not indicative of

future returns. Guide to the Markets – U.S. Data are as of June 30, 2020.

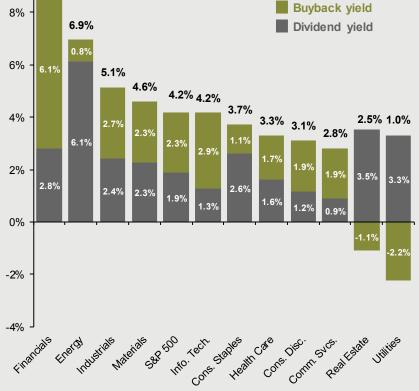
Equities



Uses of profits



Total shareholder yield by sector Last 12-months dividends and buybacks minus iss. divided by mkt. cap

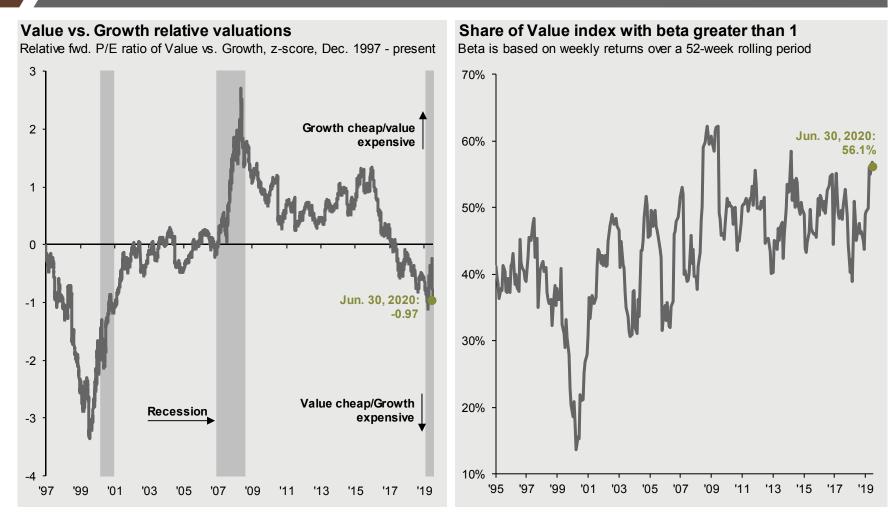


Source: Bloomberg, Compustat, FactSet, Standard & Poor's, J.P. Morgan Asset Management.

Buyback yield is net of share issuance and is based on last 12-months net issuance divided by market capitalization. Dividend yield is calculated as the last 12-months dividend divided by market capitalization. Dividends cuts, suspensions and increases are based on announcements in 2020 and on current index constituents. *Guide to the Markets – U.S.* Data are as of June 30, 2020.



Value vs. Growth



Source: FactSet, FTSE Russell, NBER, J.P. Morgan Asset Management.

Growth is represented by the Russell 1000 Growth Index and Value is represented by the Russell 1000 Value Index. Beta is calculated relative to the Russell 1000 Index.

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J.P.Morgan

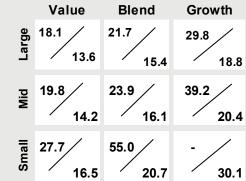
Equities

Returns and valuations by style

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	QTD				YTD			Cur
	Value	Blend	Growth		Value	Blend	Growth	
Large	14.3%	20.5%	27.8%	Large	-16.3%	-3.1%	9.8%	
Mid	19.9%	24.6%	30.3%	Mid	-18.1%	-9.1%	4.2%	
Small	18.9%	25.4%	30.6%	Small	-23.5%	-13.0%	-3.1%	
	Since mai	rket peak (C	October 200)7)	Since mar	rket low (Ma	arch 2009)	Cur
	Value	Blend	Growth		Value	Blend	Growth	
Large	77.2%	159.6%	269.6%	Large	341.9%	480.0%	653.8%	

Current P/E vs. 20-year avg. P/E



Current P/E as % of 20-year avg. P/E

	Value	Blend	Growth
Large	132.9%	140.9%	158.5%
Mid	139.3%	148.5%	192.2%
Small	168.1%	265.3%	-

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

Small

141.4% 205.8%

103.6% 152.5%

All calculations are cumulative total return, including dividends reinvested for the stated period. Since Market Peak represents period 10/9/07 – 6/30/20, illustrating market returns since the S&P 500 Index high on 10/9/07. Since Market Low represents period 3/9/09 – 6/30/20, illustrating market returns since the S&P 500 Index low on 3/9/09. Returns are cumulative returns, not annualized. For all time periods, total return is based on Russell style indices with the exception of the large blend category, which is based on the S&P 500 Index. Past performance is not indicative of future returns. The price to earnings 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. Russell 2000 Growth P/E not available due to negative earnings.

b 408.5% 482.5% 606.9%

292.8% 391.0% 495.8%



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Mid

Small

99.2%

58.8%

Returns and valuations by sector

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	Energy	Materials	Financials	Industrials	cons. Disch	Technology	comm. servi	Real Estate	HealthCale	cons. staple	5 Utilities	588500100	<u>ə</u> t
S&P weight	2.8%	2.5%	10.1%	8.0%	10.8%	27.5%	10.8%	2.8%	14.6%	7.0%	3.1%	100.0%	
Russell Growth weight Russell Value weight	0.1% 5.3%	0.8% 4.5%	2.1% 18.5%	4.6% 12.3%	15.4% 7.0%	43.9% 10.2%	11.1% 9.3%	2.1% 4.7%	15.0% 14.1%	4.8% 8.1%	0.0% 5.9%	100.0% 100.0%	Weight
0													-
QTD	30.5	26.0	12.2	17.0	32.9	30.5	20.0	13.2	13.6	8.1	2.7	20.5	
YTD	-35.3	-6.9	-23.6	-14.6	7.2	15.0	-0.3	-8.5	-0.8	-5.7	-11.1	-3.1	(%)
Since market peak (October 2007)	-31.1	74.8	4.2	104.6	328.5	415.1	78.7	93.2	254.3	198.5	123.2	159.6	Return (%)
Since market low (March 2009)	26.1	316.3	468.9	462.4	891.9	979.3	241.3	616.2	471.3	318.6	290.7	480.0	
Beta to S&P 500	1.48	1.22	1.21	1.17	1.13	1.07	0.97*	0.77	0.77	0.59	0.33	1.00	В
Correl. to Treas. yields	0.55	0.49	0.66	0.56	0.36	0.44	0.45	0.21	0.38	0.50	0.27	0.52	٩
Foreign % of sales	51.3	56.8	30.1	43.8	34.0	58.2	44.7	-	38.5	32.7	-	42.9	%
NTM earnings growth	-62.2%	0.8%	-7.7%	-5.5%	-7.3%	8.0%	2.2%	0.2%	6.0%	3.2%	3.6%	0.0%	EPS
20-yr avg.	10.8%	18.7%	21.8%	10.6%	14.9%	13.8%	9.4%*	7.6%**	9.4%	8.3%	4.6%	11.1%	ü
Forward P/E ratio	-	21.6x	14.4x	25.2x	45.4x	24.9x	21.7x	19.7x	16.5x	19.5x	17.2x	21.7x	P/E
20-yr avg.	16.0x	14.2x	12.5x	15.9x	18.0x	19.1x	18.4x*	15.7x	16.0x	16.9x	14.5x	15.4x	e E
Buyback yield	0.8%	2.3%	6.1%	2.7%	1.9%	2.9%	1.9%	-1.1%	1.7%	1.1%	-2.2%	2.3%	Bbk
20-yr avg.	1.5%	0.7%	0.0%	2.1%	2.4%	2.8%	1.2%	-0.9%	1.9%	1.8%	-1.0%	1.6%	Ξ
Dividend yield	5.8%	2.4%	2.9%	2.0%	1.0%	1.2%	1.3%	3.2%	1.8%	3.1%	3.8%	1.9%	Div
20-yr avg.	2.5%	2.6%	2.3%	2.2%	1.4%	1.0%	1.5%*	4.3%	1.8%	2.8%	3.9%	2.1%	

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 – 6/30/20. Since market low represents period 3/9/09 – 6/30/20. 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 2018: Global Sales report as of August 2019. Real Estate and Comm. Services foreign sales are not included due to lack of availability. NTM earnings growth is the percent change in next 12-months earnings estimates compared to last 12-months earnings provided by brokers. 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. Buyback yield is net of share issuance and is calculated as last 12-months net buybacks divided by market cap. Dividend yield is calculated as the next 12-months 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. Energy P/E not available due to negative NTM earnings.



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Equities

Factor performance

2005 - 2019

	2005	2006	2007	2008
S	Momen.	High Div.	Momen.	Min. V
tie	19.3%	21.1%	17.8%	-25.7
Equities	Multi- Factor	Value	Defens.	Defen
	15.7%	19.7%	17.7%	-26.7
	Value	Small Cap	Quality	High Div.

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	YTD	Ann.	Vol.
Momen.	High Div.	Momen.	Min. Vol.	Value	Small Cap	High Div.	Cyclical	Value	Value	Momen.	Small Cap	Momen.	Min. Vol.	Cyclical	Momen.	Momen.	Small Cap
19.3%	21.1%	17.8%	-25.7%	38.8%	26.9%	14.3%	20.1%	43.2%	17.7%	9.3%	21.3%	37.8%	1.5%	36.3%	5.2%	11.0%	18.7%
Multi- Factor	Value	Defens.	Defens.	Cyclical	Multi- Factor	Min. Vol.	Value	Small Cap	Min. Vol.	Min. Vol.	High Div.	Cyclical	Momen.	Quality	Cyclical	Min. Vol.	Value
15.7%	19.7%	17.7%	-26.7%	36.9%	18.3%	12.9%	16.8%	38.8%	16.5%	5.6%	16.3%	27.3%	-1.6%		0.0%	10.2%	17.7%
Value	Small Cap	Quality	High Div.	Multi- Factor	Momen.	Defens.	Small Cap	Multi- Factor	High Div.	Quality	Value	Quality	High Div.	Momen.	Quality	Multi- Factor	Cyclical
13.2%	18.4%		-27.6%	29.8%	18.2%	10.1%	16.3%	37.4%	14.9%	4.6%	15.9%	22.5%	-2.3%	28.1%		9.9%	17.7%
Defens.	Multi- Factor	Multi- Factor	Quality	Small Cap	Cyclical	Quality	Multi- Factor	Cyclical	Multi- Factor	Cyclical	Cyclical	Value	Defens.	Min. Vol.	Min. Vol.	Quality	Momen.
11.1%	16.6%	5.5%		27.2%	17.9%		15.7%	35.0%	14.8%	2.6%	14.0%	22.2%	-2.9%	28.0%	-6.5%	9.9%	16.3%
Min. Vol.	Defens.	Min. Vol.	Small Cap	Quality	High Div.	Multi- Factor	Momen.	Momen.	Momen.	High Div.	Multi- Factor	Multi- Factor	Cyclical	Value	Defens.	High Div.	Multi- Factor
6.6%	15.9%	4.3%	-33.8%	24.9%	15.9%	7.3%	15.1%	34.8%	14.7%	0.7%	13.7%	21.5%	-5.3%	27.7%	-7.6%	9.5%	15.4%
Quality	Cyclical	Value	Value	High Div.	Min. Vol.	Momen.	Quality	Quality	Cyclical	Multi- Factor	Min. Vol.	High Div.	Quality	Multi- Factor	Multi- Factor	Value	Quality
5.4%	15.0%	1.1%	-36.9%	18.4%	14.7%	6.1%	12.8%	34.3%	13.6%	0.4%	10.7%	19.5%	-5.6%	26.6%	-8.8%	9.5%	13.6%
Small Cap	Min. Vol.	High Div.	Multi- Factor	Min. Vol.	Quality	Value	Min. Vol.	High Div.	Defens.	Defens.	Quality	Min. Vol.	Multi- Factor	Small Cap	High Div.	Defens.	High Div.
4.6%	15.0%	0.0%	-39.3%	18.4%	14.2%	-2.7%	11.2%	28.9%	13.0%	-0.9%	9.4%	19.2%	-9.7%	25.5%	-11.4%	9.0%	13.3%
High Div.	Quality	Cyclical	Momen.	Momen.	Value	Cyclical	Defens.	Defens.	Quality	Small Cap	Defens.	Small Cap	Small Cap	High Div.	Small Cap	Cyclical	Defens.
3.7%	12.8%	-0.8%	-40.9%	17.6%	12.7%	-3.4%	10.7%	28.9%	10.7%	-4.4%	7.7%	14.6%	-11.0%	22.5%	-13.0%	8.8%	12.3%
Cyclical	Momen.	Small Cap	Cyclical	Defens.	Defens.	Small Cap	High Div.	Min. Vol.	Small Cap	Value	Momen.	Defens.	Value	Defens.	Value	Small Cap	Min. Vol.
2.5%	10.7%	-1.6%	-44.8%	16.5%	12.0%	-4.2%	10.6%	25.3%	4.9%	-6.4%	5.1%	12.3%	-11.1%	21.4%	-18.1%	7.9%	11.7%

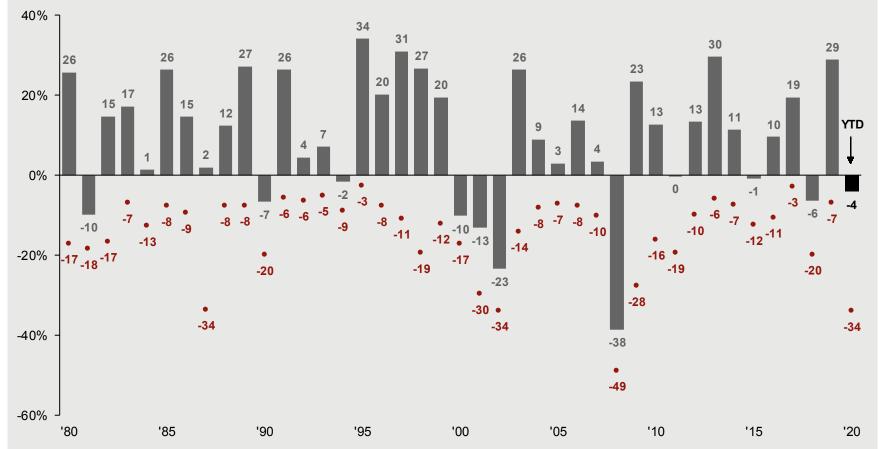
Source: FactSet, MSCI, Russell, Standard & Poor's, J.P. Morgan Asset Management. The MSCI High Dividend Yield Index aims to offer a higher than average dividend yield relative to the parent index that passes dividend sustainability and persistence screens. The MSCI Minimum Volatility Index optimizes the MSCI USA Index using an estimated security co-variance matrix to produce low absolute volatility for a given set of constraints. The MSCI Defensive Sectors Index includes: Consumer Staples, Energy, Health Care and Utilities. The MSCI Cyclical Sectors Index contains: Consumer Discretionary, Communication Services, Financials, Industrials, Information Technology and Materials. Securities in the MSCI Momentum Index are selected based on a momentum value of 12-month and 6-month price performance. Constituents of the MSCI Sector Neutral Quality Index are selected based on stronger quality characteristics to their peers within the same GICS sector by using three main variables: high return-on-equity, low leverage and low earnings variability. Constituents of the MSCI Enhanced Value Index are based on three variables: price-to-book value, priceto-forward earnings and enterprise value-to-cash flow from operations. The Russell 2000 is used for small cap. The MSCI USA Diversified Multiple Factor Index aims to maximize exposure to four factors - Value, Momentum, Quality and Size. Annualized volatility is calculated as the standard deviation of quarterly returns multiplied by the square root of 4. Guide to the Markets - U.S. Data are as of June 30, 2020.



Annual returns and intra-year declines

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

Despite average intra-year drops of 13.8%, annual returns positive in 30 of 40 years



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

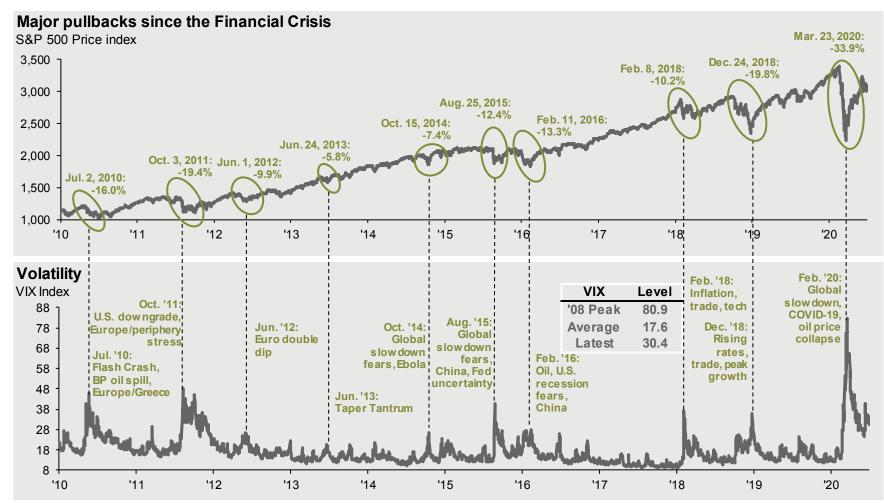
Returns are based on price index only and do not include dividends. Intra-year drops refers to the largest market drops from a peak to a trough during the year. For illustrative purposes only. Returns shown are calendar year returns from 1980 to 2019, over which time period the average annual return was 8.9%.

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Market volatility

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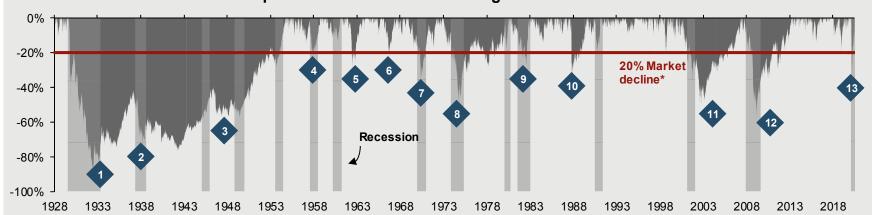
Source: CBOE, FactSet, Standard & Poor's, J.P. Morgan Asset Management. Drawdowns are calculated as the prior peak to the lowest point. *Guide to the Markets – U.S.* Data are as of June 30, 2020.



Equities

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Bear markets and subsequent bull runs



U.S. recessions and S&P 500 composite declines from all-time highs

Characteristics of bull and bear markets

		E	3 ear Mark	et		Macro env	vironment		В	ull market	s
	Market correction	Market peak	Bear return*	Duration (months)*	Recession	Commodity Spike	Aggressive Fed	Extreme Valuation	Bull begin date	Bull return	Duration (months)
1	Crash of 1929 - Excessive leverage, irrational exuberance	Sep 1929	-86%	32	•			•	Jul 1926	152%	37
2	1937 Fed Tightening - Premature policy tightening	Mar 1937	-60%	61	•		•		M ar 1935	129%	23
3	Post WWII Crash - Post-war demobilization, recession fears	May 1946	-30%	36	•			•	Apr 1942	158%	49
4	Eisenhower Recession - Worldwide recession	Aug 1956	-22%	14	•		•	•	Jun 1949	267%	85
5	Flash Crash of 1962 - Flash crash, Cuban Missile Crisis	Dec 1961	-28%	6				•	Oct 1960	39%	13
6	1966 Financial Crisis - Credit crunch	Feb 1966	-22%	7			•	•	Oct 1962	76%	39
7	Tech Crash of 1970 - Economic overheating, civil unrest	Nov 1968	-36%	17	•	•	•		Oct 1966	48%	25
8	Stagflation - OPEC oil embargo	Jan 1973	-48%	20	•	•			May 1970	74%	31
9	Volcker Tightening - Whip Inflation Now	Nov 1980	-27%	20	•	•	•		M ar 1978	62%	32
10	1987 Crash - Program trading, overheating markets	Aug 1987	-34%	3				•	Aug 1982	229%	60
11	Tech Bubble - Extreme valuations, .com boom/bust	M ar 2000	-49%	30	•			•	Oct 1990	417%	113
12	Global Financial Crisis - Leverage/housing, Lehman collapse	Oct 2007	-57%	17	•	•	•		Oct 2002	10 1%	60
13	Global Slowdown - COVID-19, oil price war	Feb 2020	-34%	1	•				M ar 2009	401%	135
	Averages	-	-42%	22					-	166%	54

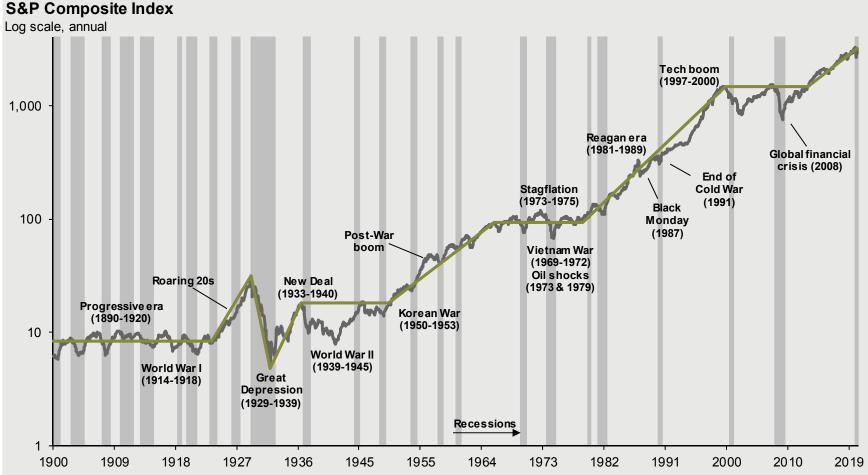
Source: FactSet, NBER, Robert Shiller, Standard & Poor's, J.P. Morgan Asset Management.

*A bear market is defined as a 20% or more decline from the previous market high. The related market return is the peak to trough return over the cycle. Periods of "Recession" are defined using NBER business cycle dates. "Commodity spikes" are defined as movement in oil prices of over 100% over an 18-month period. Periods of "Extreme Valuations" are those where S&P 500 last 12-months P/E levels were approximately two standard deviations above long-run averages, or time periods where equity market valuations appeared expensive given the broader macroeconomic environment. "Aggressive Fed Tightening" is defined as Federal Reserve monetary tightening that was unexpected and/or significant in magnitude. Bear and Bull returns are price returns.



Equities

Stock market since 1900



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 June 30, 2020.

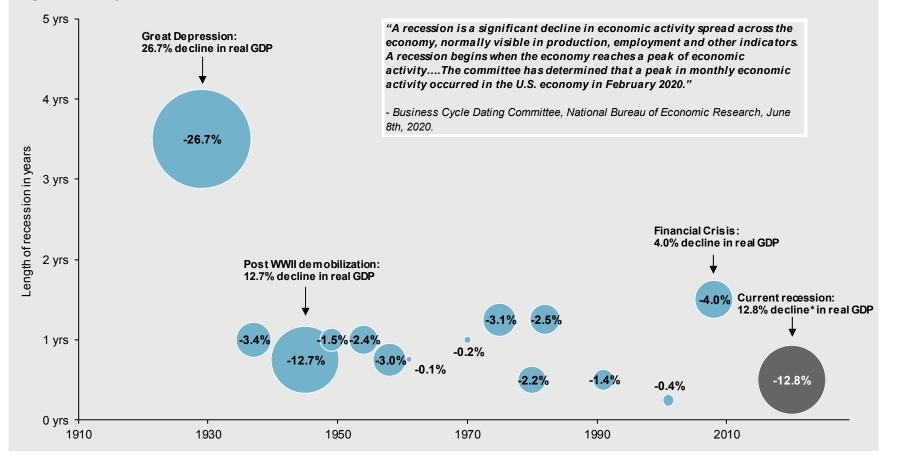


J.P.Morgan Asset Management

U.S. economic recessions

The Great Depression and post-war recessions

Length and severity of recession



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

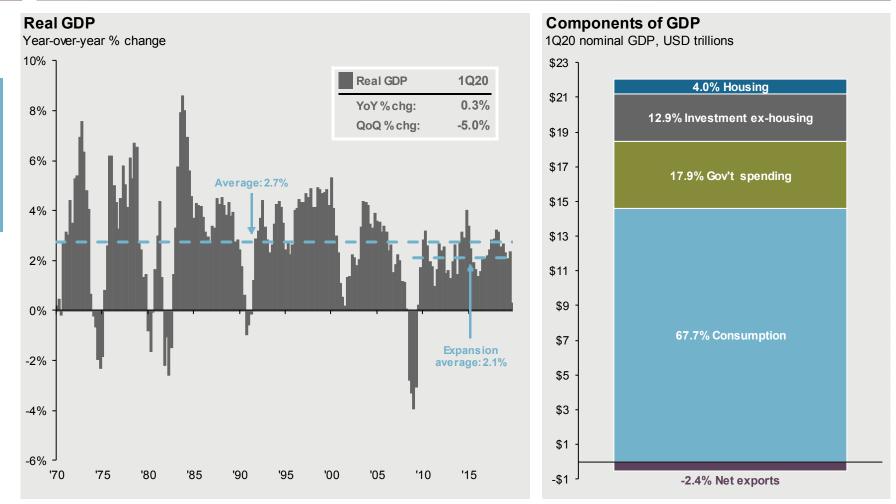
Bubble size reflects the severity of the recession, which is calculated as the decline in real GDP from the peak quarter to the trough quarter except in the case of the Great Depression, where it is calculated from the peak year (1929) to the trough year (1933), due to a lack of available quarterly data. *Current recession reflects JPMAM estimate of peak to trough decline for the recession beginning after February 2020 according to the NBER. *Guide to the Markets – U.S.* Data are as of June 30, 2020.

J.P.Morgan Asset Management

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GTM - U.S.

Economic growth and the composition of GDP

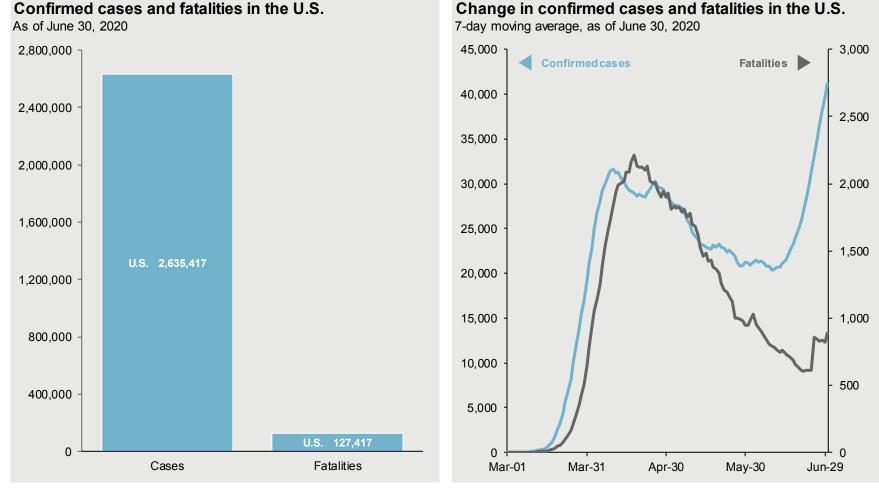


Source: BEA, FactSet, J.P. Morgan Asset Management.

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 June 30, 2020.



COVID-19: U.S. confirmed cases and fatalities



Source: Johns Hopkins CSSE, J.P. Morgan Asset Management. Guide to the Markets – U.S. Data are as of June 30, 2020.

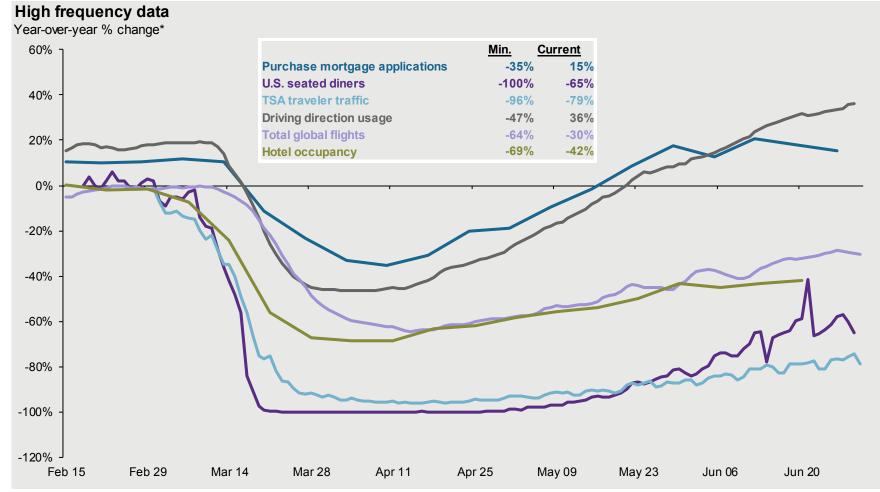


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Economy

High-frequency economic activity

GTM - U.S. | 21



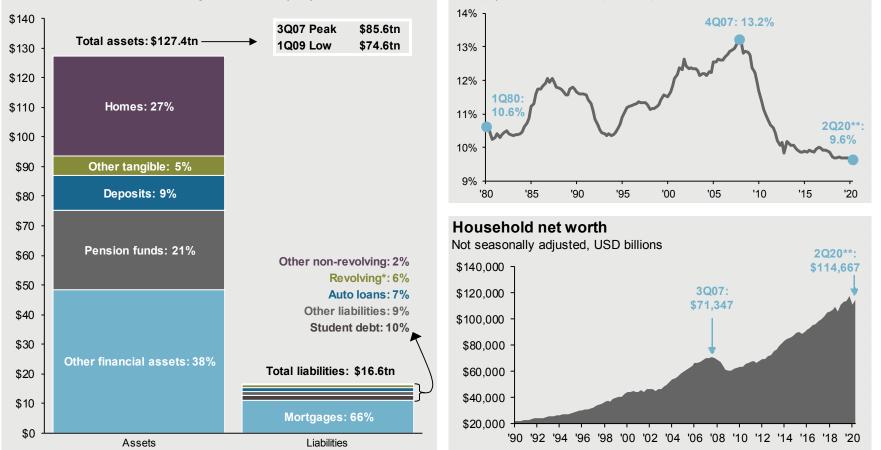
Source: Apple Inc., FlightRadar24, Mortgage Bankers Association (MBA), OpenTable, STR, Transportation Security Administration (TSA), J.P. Morgan Asset Management. *Driving directions and total global flights are 7-day moving averages and are compared to a pre-pandemic baseline. *Guide to the Markets – U.S.* Data are as of June 30, 2020.



Consumer finances

Consumer balance sheet

1Q20, trillions of dollars outstanding, not seasonally adjusted



Household debt service ratio

Debt payments as % of disposable personal income, SA

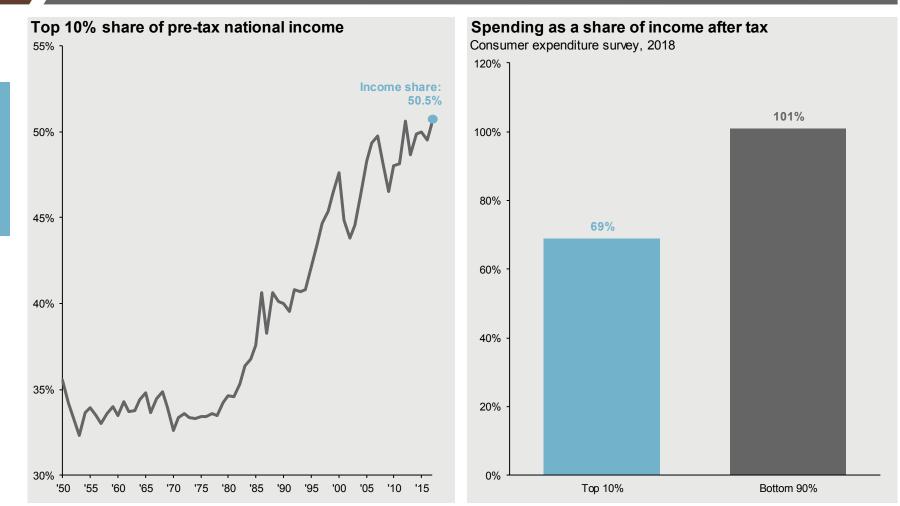
Data include households and nonprofit organizations. SA – seasonally adjusted. *Revolving includes credit cards. Values may not sum to 100% due to rounding. **2Q20 figures for debt service ratio and household net worth are J.P. Morgan Asset Management estimates. *Guide to the Markets – U.S.* Data are as of June 30, 2020.



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Source: FactSet, FRB, J.P. Morgan Asset Management; (Top and bottom right) BEA.

Income inequality in the U.S.



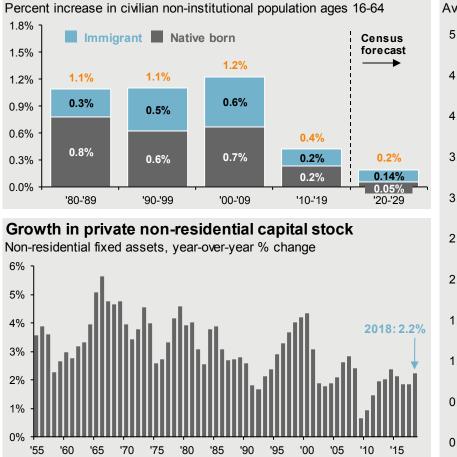
Source: Bureau of Labor Statistics, Piketty, Saez, J.P. Morgan Asset Management. (Left) "Income Inequality in the United States, 1913-1998" by Thomas Piketty and Emmanuel Saez, updated to 2018. Income is defined as market income and excludes government transfers but includes capital gains. In 2018, top decile includes all families with annual income above \$135,000. (Right) Consumer Expenditure Survey 2018. *Guide to the Markets – U.S.* Data are as of June 30, 2020.

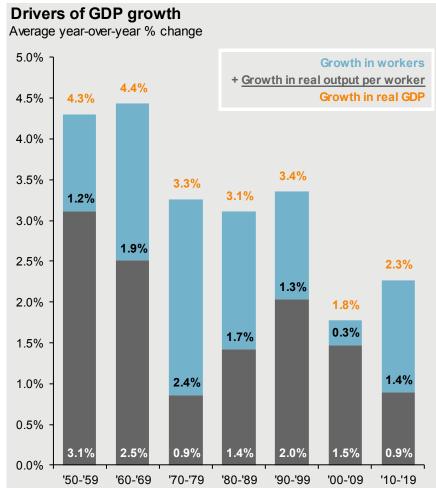


Long-term drivers of economic growth

Growth in working-age population

стм - u.s. | 24





Source: J.P. Morgan Asset Management; (Top left) Census Bureau, DOD, DOJ; (Top left and right) BLS; (Right and bottom left) BEA. GDP drivers are calculated as the average annualized growth in the 10 years ending in 4Q19. Future working-age population is calculated as the total estimated number of Americans from the Census Bureau, per the February 2020 report, controlled for military enrollment, growth in institutionalized population and demographic trends. Growth in working-age population does not include illegal immigration; DOD Troop Readiness reports used to estimate percent of population enlisted. Numbers may not sum due to rounding. *Guide to the Markets – U.S.* Data are as of June 30, 2020.

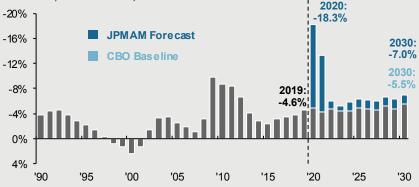
Federal finances

Amount (\$ bn)	Measure
\$293	One-time recovery rebates checks amounting to \$1,200 per adult and \$500 per child up to certain income limits
\$268	Boost to unemployment benefits, adding \$600 per week to every check until July 31st, expanding program to cover contractors and self-employed and extending program from 26 weeks to 39 weeks
\$27	Grants to airlines and businesses deemed important for national security. Non-forgivable loans through Fed are excluded as they are assumed to be repaid
\$760	Small business relief, mostly "forgivable loans" for spending on payroll, rent and utilities
\$150	Direct aid to state and local governments
\$425	Health-related spending
\$517	Other spending and tax breaks
\$2.441 trillion	~11.8% of GDP

Federal acts to offset impact of coronavirus recession

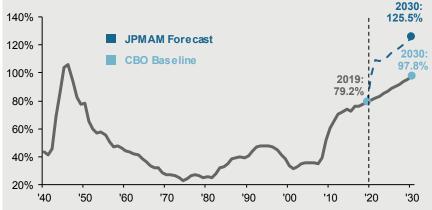
Federal budget surplus/deficit

6 of GDP, 1990 - 2030, 2020 CBO Baseline



Federal net debt (accumulated deficits)

% of GDP, 1940 – 2030, 2020 CBO Baseline, end of fiscal year



Source: CBO, J.P. Morgan Asset Management. JPMAM estimates include costs of CPRSA, FFCR, CARES and PPPHCE Acts, signed into law on March 6, 18 and 27 and April 24 as estimated by CBO. Charts on right add impacts of these acts, interest cost of additional debt, an assumed extra \$1 trillion in further acts in 2020 and 2021 and recession impacts on revenues, spending and GDP. Congressional Budget Office (CBO) March 2020 Baseline Budget Forecast. Note: Years shown are fiscal years (Oct. 1 through Sep. 30). *Guide to the Markets – U.S.* Data are as of June 30, 2020.



Unemployment and wages

Civilian unemployment rate and year-over-year wage growth for private production and non-supervisory workers Seasonally adjusted, percent

GTM - U.S.

J.P.Morgan

Asset Management

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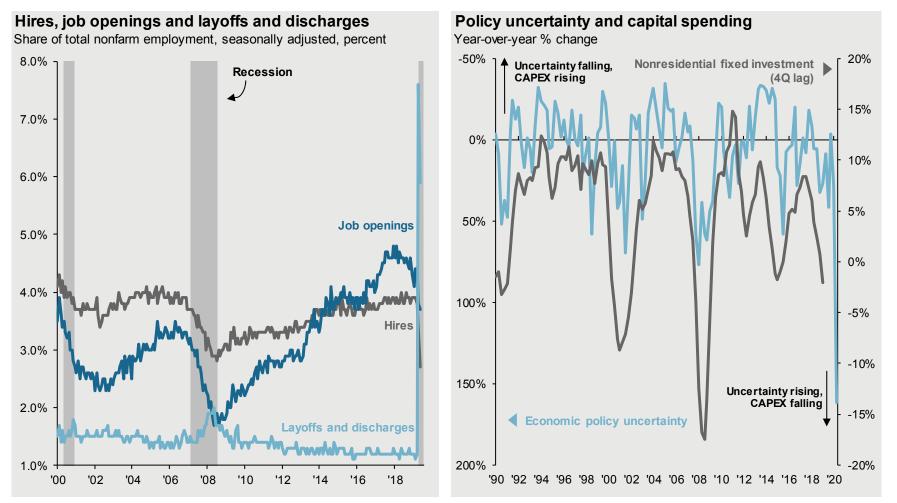


Source: BLS, FactSet, J.P. Morgan Asset Management. Guide to the Markets – U.S. Data are as of June 30, 2020.

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Business sentiment and economic cycles

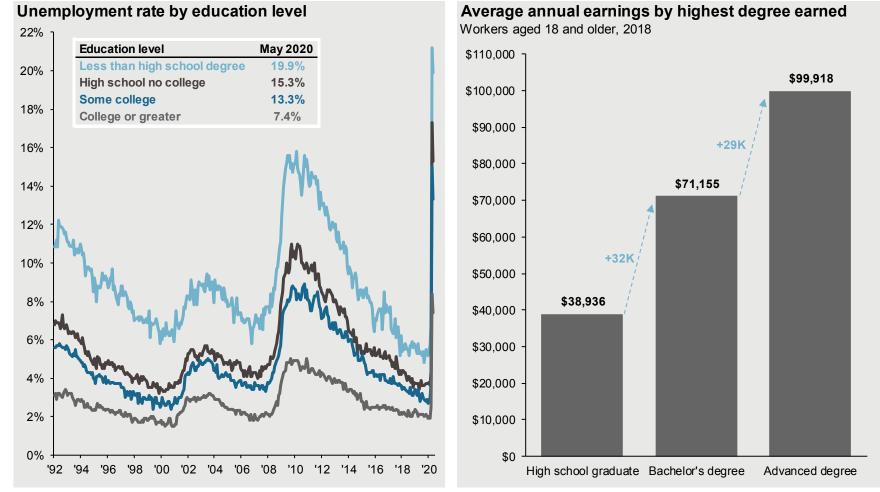


Source: J.P. Morgan Asset Management; (Left) Bureau of Labor Statistics; (Right) Bureau of Economic Analysis, "Measuring Economic Policy Uncertainty" by Scott Baker, Nicholas Bloom and Steven J. Davis. The policy uncertainty index is constructed by three components: newspaper coverage of policy-related economic uncertainty, the number of federal tax code provisions set to expire in future years and disagreement among economic forecasters as a proxy for uncertainty. *Guide to the Markets – U.S.* Data are as of June 30, 2020.



Economy

Employment and income by educational attainment



Source: J.P. Morgan Asset Management; (Left) BLS, FactSet; (Right) Census Bureau. Unemployment rates shown are for civilians aged 25 and older. Earnings by educational attainment comes from the Current Population Survey and is published under historical income tables by person by the Census Bureau. *Guide to the Markets – U.S.* Data are as of June 30, 2020.



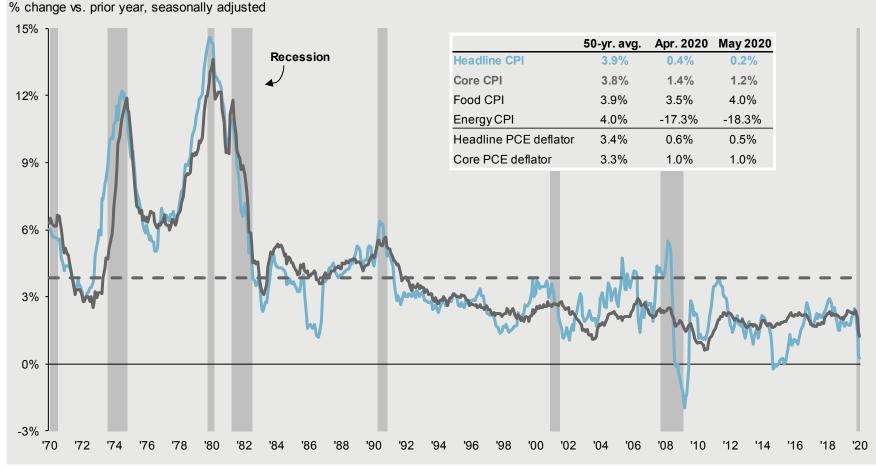
28

Inflation

CPI and core CPI

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Economy

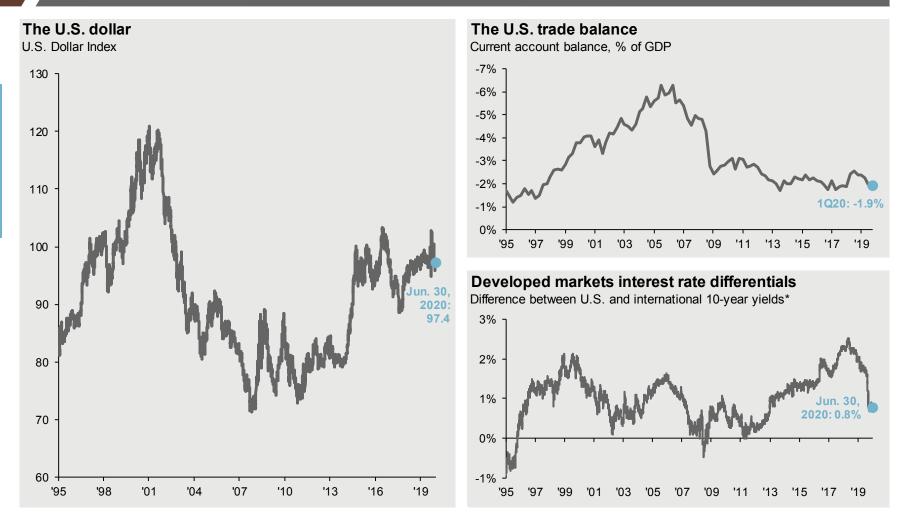


Source: BLS, FactSet, J.P. Morgan Asset Management.

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. *Guide to the Markets – U.S.* Data are as of June 30, 2020.



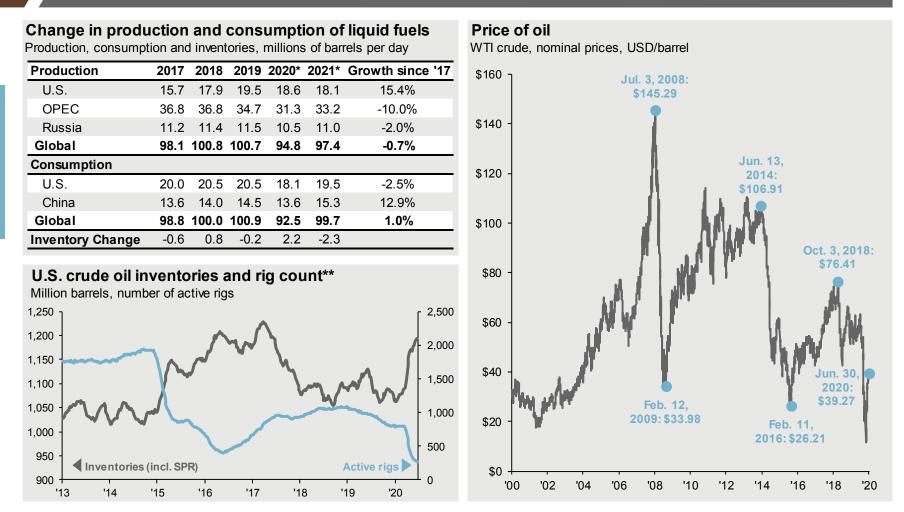
Dollar drivers



Source: J.P. Morgan Asset Management; (Left) FactSet, ICE; (Top right) Bureau of Economic Analysis, FactSet; (Bottom right) Tullett Prebon. Currencies in the DXY Index are: British pound, Canadian dollar, euro, Japanese yen, Swedish krona and Swiss franc. *Interest rate differential is the difference between the 10-year U.S. Treasury yield and a basket of the 10-year yields of each major trading partner (Australia, Canada, Europe, Japan, Sweden, Switzerland and UK). Weights on the basket are calculated using the 10-year average of total government bonds outstanding in each region. Europe is defined as the 19 countries in the euro area. *Guide to the Markets – U.S.* Data are as of June 30, 2020.



Oil markets



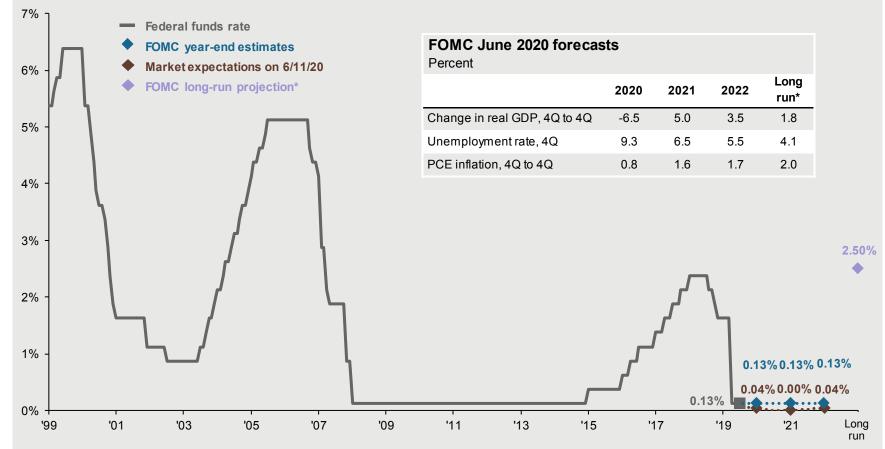
Source: J.P. Morgan Asset Management; (Top and bottom left) EIA; (Right) FactSet; (Bottom left) Baker Hughes. *Forecasts are from the June 2020 EIA Short-Term Energy Outlook and start in 2020. **U.S. crude oil inventories include the Strategic Petroleum Reserve (SPR). Active rig count includes both natural gas and oil rigs. WTI crude prices are continuous contract NYM prices in USD. *Guide to the Markets – U.S.* Data are as of June 30, 2020.



The Fed and interest rates

Federal funds rate expectations

FOMC and market expectations for the federal funds rate



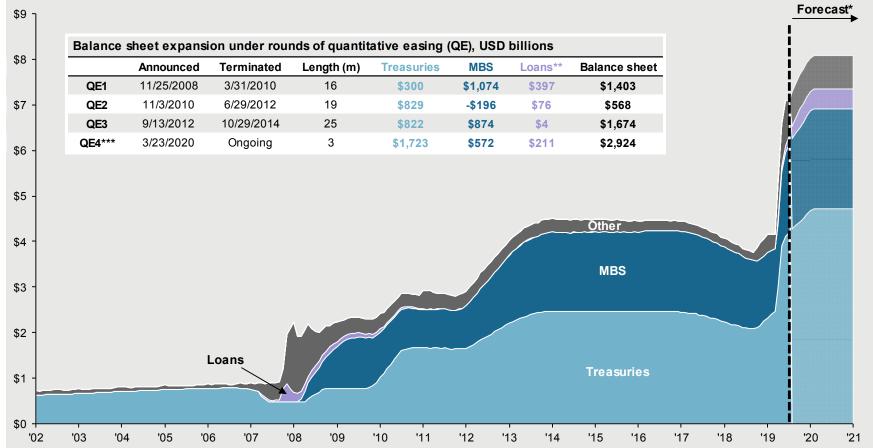
Source: Bloomberg, FactSet, Federal Reserve, J.P. Morgan Asset Management. Market expectations are the federal funds rates priced into the fed futures market as of the following date of the June 2020 FOMC meeting and are through December 2022. *Long-run projections are the rates of growth, unemployment 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. *Guide to the Markets – U.S.* Data are as of June 30, 2020.



The Federal Reserve balance sheet

The Federal Reserve balance sheet

USD trillions



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

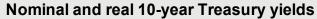
Currently, the balance sheet contains \$4.2 trillion in Treasuries and \$1.9 trillion in MBS. The end balance forecast is \$4.7 trillion in Treasuries and \$2.2 trillion in MBS by December 2020. *Balance sheet forecast assumes the Federal Reserve maintains its current pace of purchases of Treasuries and MBS through December 2020 as outlined in the June 2020 FOMC meeting. **Loans include primary, secondary and seasonal loans, maiden lane securities and loans extended through newly established corporate credit facilities. Loan figures shown are max usage over the QE period referenced and are not growth of loan portfolio over the period. ***QE4 is ongoing and the expansion figures are as of the most recent Wednesday close as reported by the Federal Reserve.

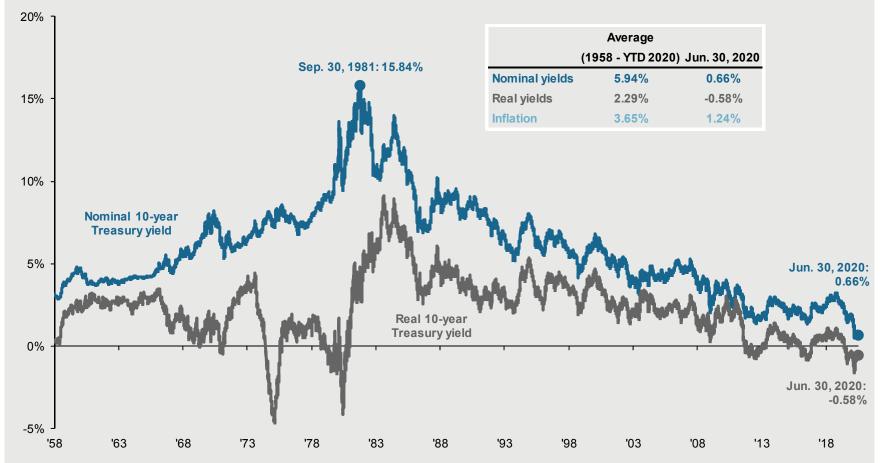


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Interest rates and inflation





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 May and June 2020 where real yields are calculated by subtracting out April 2020 year-over-year core inflation. *Guide to the Markets – U.S.* Data are as of June 30, 2020.



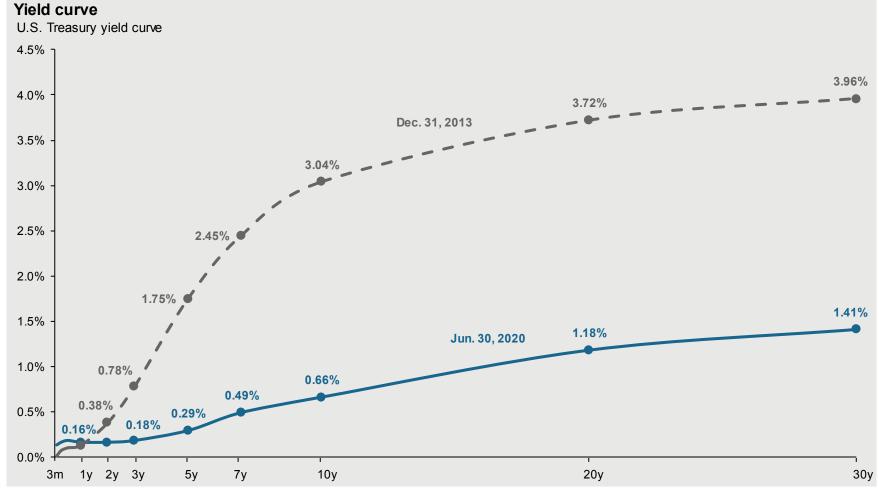
Fixed income market dynamics

	Yi	eld	Return				Issuance by sector	
U.S. Treasuries	6/30/2020	3/31/2020	2020 YTD	Avg. Maturity		Correlation to S&P 500	USD billions, gross issuance through May 2020 vs. May 2019	
2-Year	0.16%	0.23%	2.96%	2 years	0.68	-0.40	U.S. T-bills (net)	2,2
5-Year	0.29%	0.37%	7.31%	5	0.92	-0.36	1,029	
TIPS	-0.68%	-0.17%	6.01%	10	0.59	0.16	Corporates 517	
10-Year	0.66%	0.70%	12.70%	10	1.00	-0.34	- 1,001	
30-Year	1.41%	1.35%	24.91%	30	0.93	-0.34	Agency MBS 508	
Sector							U.S. Treasuries 332 302	
Corporates	2.15%	3.43%	5.02%	12.1	0.42	0.38	- 140	
U.S. Aggregate	1.25%	1.59%	6.14%	8.1	0.85	0.01	High Yield 107	
Convertibles	6.83%	6.77%	7.29%	-	-0.30	0.90	Tax-exempt Municipals	
High Yield	6.87%	9.44%	-3.80%	6.3	-0.25	0.74	112 Jan May 2019	
Municipals	1.50%	2.01%	2.08%	13.0	0.39	0.08	Taxable Municipals	
MBS	1.36%	1.34%	3.50%	3.7	0.82	-0.14	-	
ABS	3.10%	4.29%	0.51%	2.2	0.01	0.28	Non-agency MBS 58	
Floating Rate	0.94%	3.61%	0.35%	1.8	-0.23	0.46	, 	\$2

Source: Barclays, Bloomberg, FactSet, SIFMA, Standard & Poor's, U.S. Treasury, J.P. Morgan Asset Management. Sectors shown above are provided by Bloomberg unless otherwise noted and are represented by - U.S. Aggregate; MBS: U.S. Aggregate Securitized - MBS; ABS: J.P. Morgan ABS Index; Corporates: U.S. Corporates; Municipals: Muni Bond; High Yield: Corporate High Yield; TIPS: Treasury Inflation-Protected Securities (TIPS); U.S. Floating rate index; Convertibles: U.S. Convertibles Composite. Convertibles yield is as of March 2020 due to data availability. Yield and return information based on bellwethers for Treasury securities. Sector yields reflect yield to worst. Convertibles yield is based on U.S. portion of Bloomberg Barclays Global Convertibles. Correlations are based on 15-years of monthly returns for all sectors. Issuance is based on monthly data provided by SIFMA. Past performance is not indicative of future results.

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35 Guide to the Markets – U.S. Data are as of June 30, 2020. Yield curve

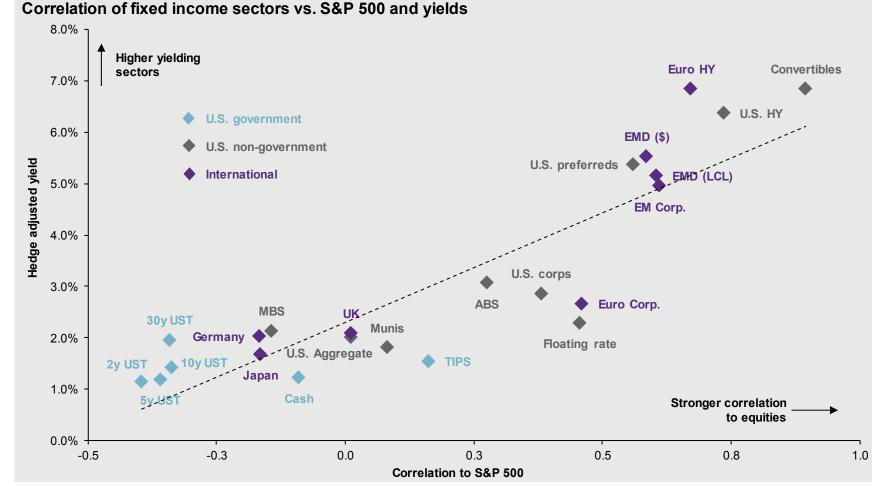


Source: FactSet, Federal Reserve, J.P. Morgan Asset Management. *Guide to the Markets – U.S.* Data are as of June 30, 2020.

GTM - U.S. 36

Fixed income yields and correlation to the equity market

Asset Management



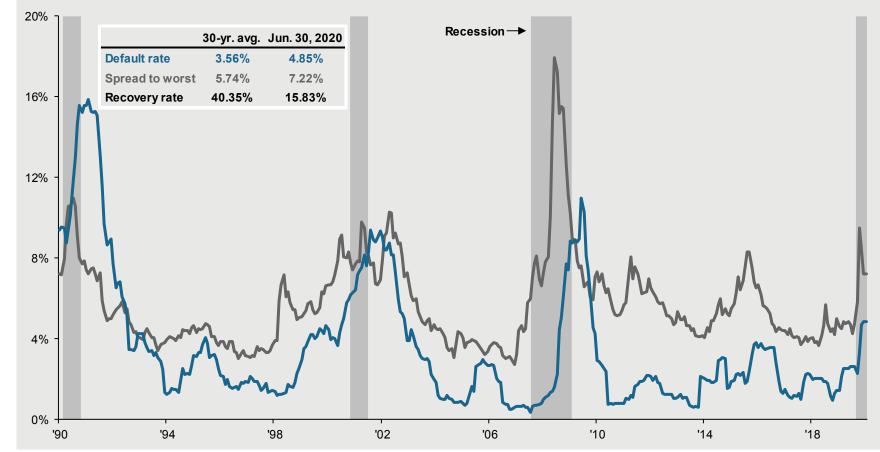
Source: Bloomberg, FactSet, ICE, J.P. Morgan Asset Management. Sectors are Bloomberg indices except for EMD and ABS – U.S. Aggregate; MBS: U.S. Aggregate Securitized - MBS; U.S. Preferreds: S&P U.S. Preferred Stock Index; U.S. corps: U.S. Corporates; Munis: Muni Bond; Cash: 1-3m Treasury; U.S. HY: Corporate High Yield; TIPS: Treasury Inflation-Protected Securities (TIPS); Floating Rate: U.S. Floating Rate; Convertibles: U.S. Convertibles Composite; ABS: J.P. Morgan ABS; EMD (\$): J.P. Morgan EMBIG Diversified; EMD (LCL): J.P. Morgan GBI EM Global Diversified; EM Corp: J.P. Morgan CEMBI Broad Diversified; Euro Corp.: Euro Aggregate Corporate; Euro HY: Pan-European High Yield. Convertibles yield is based on the U.S. portion of the Bloomberg Barclays Global Convertibles. Country yields are represented by the global aggregate for each country. Yield and return information based on bellwethers for Treasury securities. Correlations are based on 15-years of monthly returns for all sectors. International fixed income sector correlations are in hedged U.S. dollar returns except EMD local index. Yields for all indices are hedged using three-month LIBOR rates between the U.S. and international LIBOR and are a 12-month average. *Guide to the Markets – U.S.* Data are as of June 30, 2020.

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High yield bonds

Default rate and spread to worst

Percent



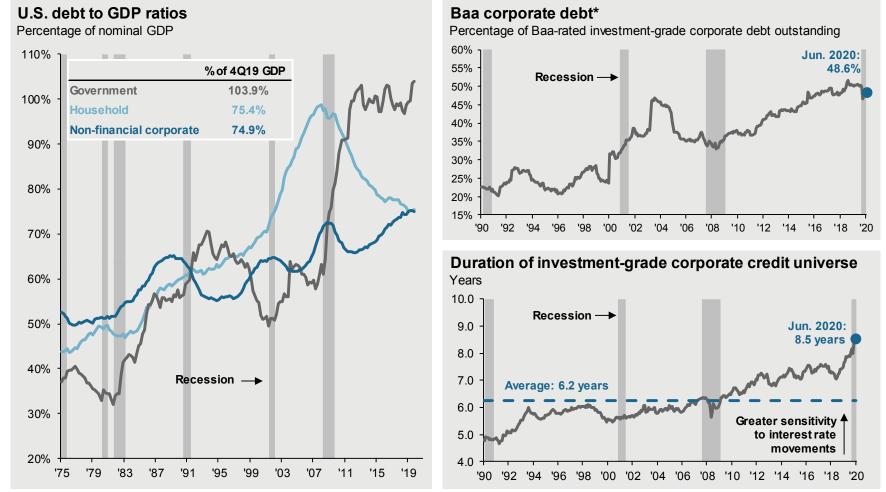
Source: J.P. Morgan Global Economic Research, J.P. Morgan Asset Management.

Default rates are defined as the par value percentage of the total market trading at or below 50% of par value and include any Chapter 11 filing, prepackaged filing or missed interest payments. The default rate is an LTM figure (last twelve months) and tracks the % of defaults over the period. Recovery rates are based on the price of the defaulted bonds or loans 30-days post the default date. Default and recovery rates are as of May 2020 due to data availability. Spread to worst indicated are the difference between the yield-to-worst of a bond and yield-to-worst of a U.S. Treasury security with a similar duration. High yield is represented by the J.P. Morgan Domestic High Yield Index. *Guide to the Markets – U.S.* Data are as of June 30, 2020.

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Fixed income

Corporate debt



Source: FactSet, J.P. Morgan Asset Management; (Left) Bank for International Settlements (BIS); (Top and bottom right) Barclays, Bloomberg. Government, household and non-financial corporate debt refers to gross debt. General government debt is comprised of core debt instruments that include currency and deposits, loans and debt securities. All debt values are shown at market value. *Baa debt outstanding and duration of investment grade is based on the Bloomberg Barclays U.S. Aggregate Investment Grade Corporate Credit Index. Baa debt is the lowest credit rating issued by Moody's for investment-grade debt.

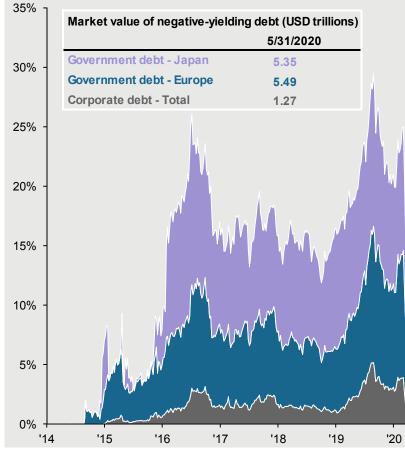


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Negative-yielding debt

Negative-yielding debt

Share of ICE BofAML Global Broad Market Index



Central and domestic bank ownership by region

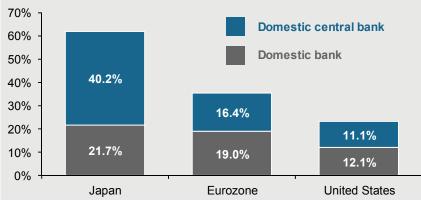
40

GTM - U.S.

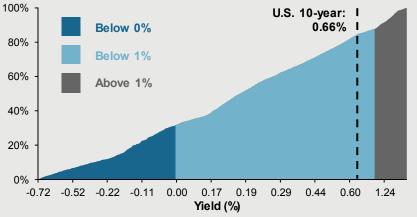
J.P.Morgan

Asset Management

% of total government debt outstanding, 4Q19



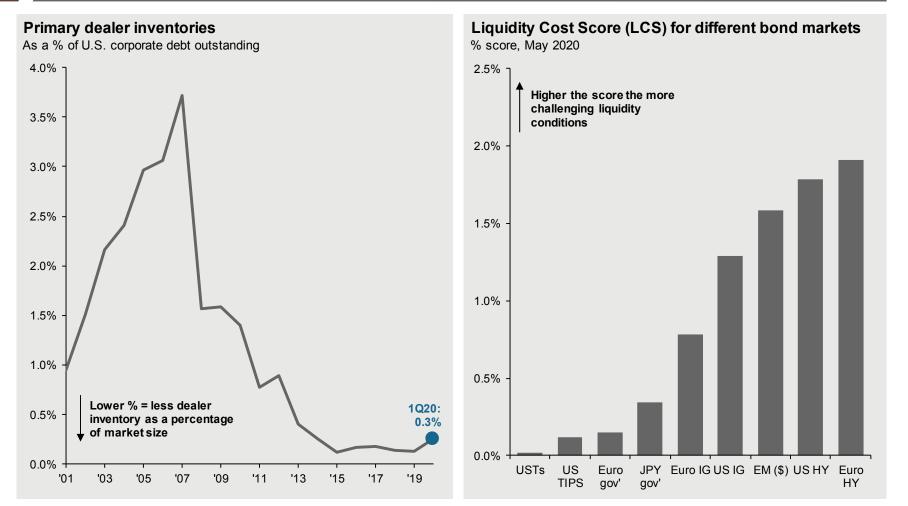
Breakdown of DM government bonds by yield



Source: J.P. Morgan Asset Management; (Left) Bloomberg, BofA/Merrill Lynch; (Top right) Bank for International Settlements International Banking Statistics, ECB, Eurostat, IMF Coordinated Portfolio Investment Survey (CPIS), IMF Currency Composition of Official Foreign Exchange Reserves (COFER), IMF International Financial Statistics (IFS), IMF-World Bank Quarterly External Debt Statistics; (Bottom right) Bloomberg, BofA/Merrill Lynch. Countries included in Europe are Austria, Belgium, Finland, France, Germany, Greece, Ireland, Italy, Netherlands, Portugal, Slovenia, Spain, Sweden and Switzerland. Guide to the Markets - U.S. Data are as of June 30, 2020.

Fixed income

Bond market liquidity

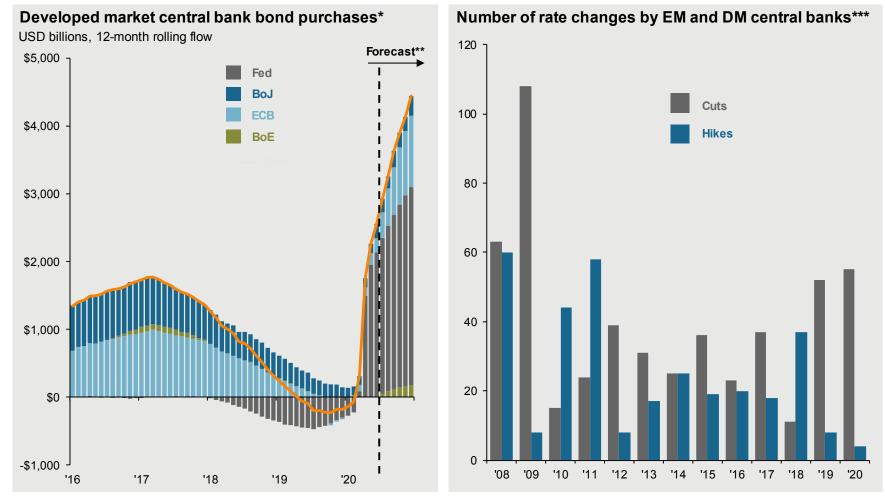


Source: J.P. Morgan Asset Management; (Left) Federal Reserve Bank of New York, SIFMA; (Right) Barclays. U.S. corporate debt outstanding includes money market debt. Liquidity Cost Score focuses on the cost of trading across different asset classes by assessing 20,400 fixed income securities. It is calculated by the bid-spread minus the ask-spread multiplied by the option-adjusted spread duration (OASD). *Guide to the Markets – U.S.* Data are as of June 30, 2020.



Global monetary policy

GTM - U.S. | 42



Source: J.P. Morgan Asset Management; (Left) Bank of England, Bank of Japan, European Central Bank, FactSet, Federal Reserve System, J.P. Morgan Global Economic Research; (Right) Bloomberg. *Includes the Bank of Japan (BoJ), Bank of England (BoE), European Central Bank (ECB) and Federal Reserve. **Bond purchase forecast assumes \$200bn GBP in net purchases from BoE through August 2021; continued BoJ QE of \$50trn JPY ann. for 2020; \$1.11trn EUR in net purchases from the ECB through 2020; and the Federal Reserve to purchase \$2.5trn of Treasuries, \$1.2trn of agency MBS and \$50bn of agency CMBS through 2020. Fed assumptions are based on purchase activity in March 2020 and previous QE announcements. ***Central banks include Australia, Brazil, Canada, Chile, China, Colombia, Denmark, euro area, Hong Kong SAR, Indonesia, India, Japan, Korea, Malaysia, Mexico, Norway, Peru, Philippines, Poland, Russia, Saudi Arabia, South Africa, Sweden, Switzerland, Thailand, Turkey, United Kingdom and the United States. *Guide to the Markets – U.S.* Data are as of June 30, 2020.



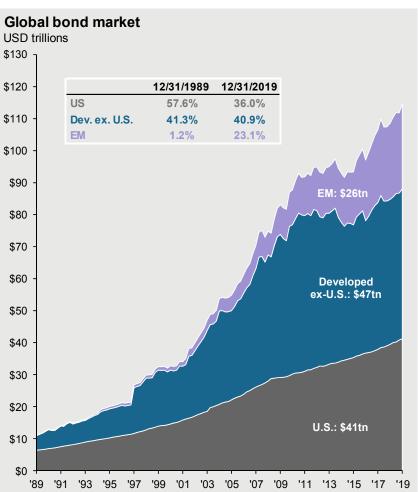
Fixed income

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Global fixed income

	U.S.
	Gbl. ex-U.
	Japan
ome	Germany
ixed income	UK
ixed	Italy
ш	Spain
	Sector

	Yi	eld	YTD F	Return		
Aggregates	6/30/2020	12/31/2019	Local	USD	Duration	Correl. to 10-year
U.S.	1.25%	2.31%	6.14%	6.14%	6.0 years	0.88
Gbl. ex-U.S.	0.78%	0.94%	-	0.99%	8.1	0.24
Japan	0.12%	0.08%	-0.77%	-0.04%	9.6	0.47
Germany	-0.07%	0.20%	1.58%	1.63%	7.1	0.05
UK	0.80%	1.30%	8.82%	1.50%	11.4	0.19
Italy	0.95%	0.97%	1.47%	1.53%	7.0	-0.09
Spain	0.35%	0.35%	0.75%	0.81%	7.6	-0.08
Sector						
Euro Corp.	0.89%	0.51%	-1.19%	-1.14%	5.3 years	0.11
Euro HY	5.62%	3.46%	-5.82%	-5.77%	4.1	-0.28
EMD (\$)	5.51%	4.91%	-	-2.76%	7.3	0.09
EMD (LCL)	4.51%	5.22%	4.55%	-6.89%	5.4	-0.04
EM Corp.	4.71%	4.51%	-	-0.16%	5.7	-0.04



Source: J.P. Morgan Asset Management; (Left) Barclays, Bloomberg, FactSet; (Right) BIS.

Fixed income sectors shown above are provided by Bloomberg and are represented by the global aggregate for each country except where noted. EMD sectors are represented by the J.P. Morgan EMBIG Diversified Index (USD), the J.P. Morgan GBI EM Global Diversified Index (LCL) and the J.P. Morgan CEMBI Broad Diversified Index (Corp). European Corporates are represented by the Bloomberg Barclays Euro Aggregate Corporate Index and the Bloomberg Barclays Pan-European High Yield Index. Sector yields reflect yield to worst. Correlations are based on 10 years of monthly returns for all sectors. Past performance is not indicative of future results. Global bond market regional breakdown may not sum to 100% due to rounding.



Guide to the Markets – U.S. Data are as of June 30, 2020.

Fixed income sector returns

GTM - U.S.

2005-2019

	10.2%	
	EMD	
	LCL.	
	6.3%	
	Muni	
	3.5%	
b	Asset	
Ĕ	Alloc.	
ncome	3.1%	
inc	TIPS	
ed	2.8%	
Fix	Treas.	

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	YTD	Ann.	Vol.
EMD	EMD	EMD	2000	High	EMD		EMD	High		2013	High	EMD		EMD		EMD	EMD
USD	LCL.	LCL.	Treas.	Yield	LCL.	TIPS	USD	Yield	Muni	Muni	Yield	LCL.	ABS	USD	Treas.	USD	LCL.
10.2%	15.2%	18.1%	13.7%	58.2%	15.7%	13.6%	17.4%	7.4%	9.1%	3.3%	17.1%	15.2%	2.7%	15.0%	8.7%	7.3%	10.6%
EMD	High			EMD	High		EMD				EMD	EMD			Barclays	High	High
LCL.	Yield	TIPS	MBS	USD	Yield	Muni	LCL.	ABS	Corp.	MBS	USD	USD	Muni	Corp.	Agg	Yield	Yield
6.3%	11.8%	11.6%	8.3%	29.8%	15.1%	10.7%	16.8%	1.3%	7.5%	1.5%	10.2%	10.3%	1.3%	14.5%	6.1%	7.2%	10.3%
	EMD	T	Barclays	4.50	EMD	T	High	1400	EMD	EMD	EMD	High	MDO	High	TIDO	EMD	EMD
Muni	USD	Treas.	Agg	ABS	USD	Treas.	Yield	MBS	USD	USD	LCL.	Yield	MBS	Yield	TIPS	LCL.	USD
3.5%	9.9%	9.0%	5.2%	24.7%	12.2%	9.8%	15.8%	-1.4%	7.4%	1.2%	9.9%	7.5%	1.0%	14.3%	6.0%	5.3%	7.2%
Asset	Asset	Barclays	Asset	EMD	Corp	Corn	Corn	Corp	MBS	Traca	Corn	Corn	Tropo	EMD	Corp	Corp	Corn
Alloc.	Alloc.	Agg	Affoc.	LCL.	Corp.	Corp.	Corp.	Corp.	IVIDO	Treas.	Corp.	Corp.	Treas.	LCL.	Corp.	Corp.	Corp.
3.1%	5.8%	7.0%	/-1.9%	22.0%	9.0%	8.1%	9.8%	-1.5%	6.1%	0.8%	6.1%	6.4%	0.9%	13.5%	5.0%	5.2%	5.5%
TIPS	мвз	MBS	TIPS	Corp.	Asset	Barclays	Asset	Asset	Barclays	Barclays	Asset	Muni	Barclays	Asset	MBS	Asset	TIPS
-		\backslash	-		Alfoc.	Agg	Affoc.	Afloc.	Agg	Agg	Alfoc.		Agg	Alloc.		Alloc.	
2.8%	5.2%	6.9%	-2.4%	18.7%	7.6%	7.8%	7.6%	-1.7%	6.0%	0.5%	4.8%	5.4%	0.0%	9.8%	3.5%	4.9%	4.8%
Treas.	Muni	Asset	Muni	Asset	Barclays	Asset	TIPS	Barclays	Asset	ABS	TIPS	Asset	Asset	Barclays	Asset	Muni	Treas.
		Alloc.		Alloc.	Agg	Alloc.	-	Agg	Allec.	/		Alloc.	Alloc.	Agg	Alloc.		
2.8%	4.8%	6.2%	-2.5%	16.5%	6.5%	7.7%	7.0%	-2.0%	5.4%	0.2%/	4.7%	5.3%	-0.6%	8.7%	2.8%	4.3%	4.6%
High	ABS	EMD	Corp.	Muni	TIPS	EMD	Muni	Muni	Treas.	Asset	Barclays	Barclays	TIPS	TIPS	Muni	Barclays	ABS
Yield	4 70/	USD		40.00/	0.00/	USD	0.00/	0.00/	E 40/	Affoc.	Agg	Agg	4 00/	0 40/	0.40/	Agg	4.40/
2.7%	4.7%	6.2%	-4.9%	12.9%	6.3%	7.3%	6.8%	-2.6%	5.1%	-0.4%	2.6%	3.5%	-1.3%	8.4%	2.1%	4.1%	4.1%
MBS	Barclays	Corp.	EMD LCL.	TIPS	Treas.	MBS	Barclays	Treas.	TIPS	Corp.	ABS	TIPS	High Yield	Muni	ABS	MBS	Muni
2.6%	Agg 4.3%	4.6%	-5.2%	11.4%	5.9%	6.2%	Agg 4.2%	-2.7%	3.6%	-0.7%	2.0%	3.0%	-2.1%	7.5%	0.5%	4.0%	3.8%
	4.3 /0	4.0 /0	-5.2 %		0.970	0.2 /0	4.2 /0	-2.7 %	High	-0.7 /0	2.0 /0	3.0 /0	-2.1/0	7.3/0	EMD	4.0 /0	
Barclays Agg	Corp.	Muni	USD	Barclays Agg	ABS	ABS	ABS	USD	Yield	TIPS	MBS	ABS	Corp.	Treas.	USD	TIPS	Asset Alloc.
2.4%	4.3%	3.4%	-12.0%	5.9%	5.9%	5.1%	3.7%	-5.3%	2.5%	-1.4%	1.7%	3.0%	-2.5%	6.9%	-2.8%	3.8%	3.6%
2.470	4.070	0.470	-12.0 /0	0.0 /0	0.070	High	0.170	-0.070	2.070	High	1.7 /0	0.070	EMD	0.0 /0	High	0.070	Barclays
ABS	Treas.	ABS	ABS	MBS	MBS	Yield	MBS	TIPS	ABS	Yield	Treas.	MBS	USD	MBS	Yield	Treas.	Agg
2.1%	3.1%	2.2%	-12.7%	5.9%	5.4%	5.0%	2.6%	-8.6%	1.7%	-4.5%	1.0%	2.5%	-4.3%	6.4%	-3.8%	3.7%	3.3%
		High	High			EMD	_	EMD	EMD	EMD		_	EMD		EMD		
Corp.	TIPS	Yield	Yield	Treas.	Muni	LCL.	Treas.	LCL.	LCL.	LCL.	Muni	Treas.	LCL.	ABS	LCL.	ABS	MBS
1.7%	0.4%	1.9%	-26.2%	-3.6%	2.4%	-1.8%	2.0%	-9.0%	-5.7%	-14.9%	0.2%	2.3%	-6.2%	3.8%	-6.9%	3.0%	2.5%

Source: Barclays, Bloomberg, FactSet, J.P. Morgan Global Economic Research, J.P. Morgan Asset Management. Past performance is not indicative of future returns. Fixed income sectors shown above are provided by Bloomberg unless otherwise noted and are represented by Broad Market: U.S. Aggregate Index; MBS: US Aggregate Securitized - MBS Index; ABS: J.P. Morgan ABS Index; Corporate: U.S. Aggregate Credit - Corporates - Investment Grade; Municipals: Municipal Bond Index; High Yield: U.S. Aggregate Credit - Corporate - High Yield Index; Treasuries: Global U.S. Treasury; TIPS: U.S. Treasury Inflation-Protected Notes Index; Emerging Debt USD: J.P. Morgan EMBIG Diversified Index; Emerging Debt LCL: J.P. Morgan EMBIG Diversified Index. The "Asset Allocation" portfolio assumes the following weights: 20% in MBS, 5% in ABS, 20% in Corporate, 15% in Municipals, 5% in Emerging Debt USD, 5% in Emerging Debt LCL, 10% in High Yield, 15% in Treasuries, 5% in TIPS. Asset allocation portfolio assumes annual rebalancing.



In TIPS. Asset allocation portfolio assumes annual rebalan Guide to the Markets – U.S. Data are as of June 30, 2020.

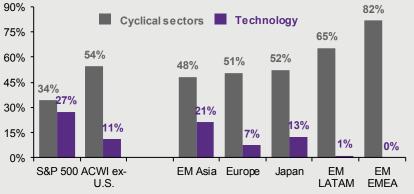
Global equity markets

Returns	2020	YTD	20	19	15-ye	ears
	Local	USD	Local	USD	Ann.	Beta
Regions						
U.S. (S&P 500)	-	-3.1	-	31.5	9.0	0.87
AC World ex-U.S.	-8.8	-10.8	21.4	22.1	5.7	1.10
EAFE	-10.3	-11.1	22.3	22.7	5.3	1.06
Europe ex-UK	-9.0	-8.6	27.5	25.9	5.9	1.20
Emerging markets	-5.4	-9.7	18.5	18.9	7.8	1.26
Selected Countries						
United Kingdom	-17.7	-23.2	16.5	21.1	4.2	1.01
France	-15.6	-15.5	29.3	27.0	5.9	1.22
Germany	-7.2	-7.1	23.9	21.7	6.4	1.32
Japan	-7.6	-6.9	18.9	20.1	4.3	0.75
China	3.5	3.6	23.3	23.7	11.3	1.26
India	-12.1	-16.9	10.0	7.6	9.2	1.31
Brazil	-16.5	-38.8	31.5	26.7	9.5	1.47
Russia	-14.3	-24.3	38.8	52.7	7.4	1.53

Weights in MSCI All Country World Index % global market capitalization, float adjusted Emerging markets 12% United States 58%

Representation of cyclical and technology sectors

% of index market capitalization



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

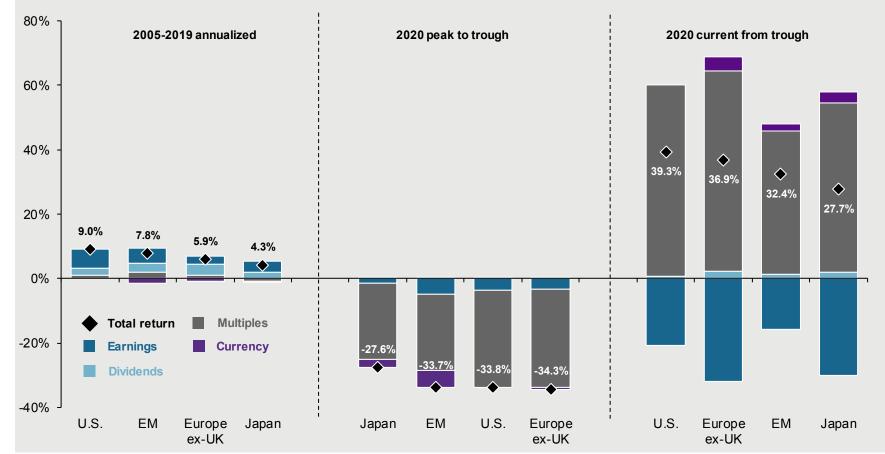
All return values are MSCI Gross Index (official) data. 15-year history based on U.S. dollar returns. 15-year return and beta figures are calculated for the time period 12/31/04-12/31/19. Beta is for monthly returns relative to the MSCI AC World Index. Annualized volatility is calculated as the standard deviation of quarterly returns multiplied by the square root of 4. Chart is for illustrative purposes only. Please see disclosure page for index definitions. Past performance is not a reliable indicator of current and future results. Sector breakdown includes the following aggregates: Technology (Information Technology) and cyclicals (Consumer Discretionary, Financials, Industrials, Energy and Materials). *Guide to the Markets –U.S.* Data are as of June 30, 2020.



Sources of global equity returns

Sources of global equity returns*

Total return, USD



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

All return values are MSCI Gross Index (official) data, except the U.S., which is the S&P 500. *Multiple expansion is based on the forward P/E ratio, and EPS growth outlook is based on NTMA earnings estimates. 2020 peak to trough periods for U.S., emerging markets, Japan and Europe ex-UK are 2/19/20 - 3/23/20, 1/7/20 - 3/23/20, 1/3/20 - 3/20/20 and 2/12/20 - 3/18/20, respectively. 2020 current from trough are market returns from the trough dates for each region until the most recent date. Chart is for illustrative purposes only. Past performance is not indicative of future results. *Guide to the Markets – U.S.* Data are as of June 30, 2020.

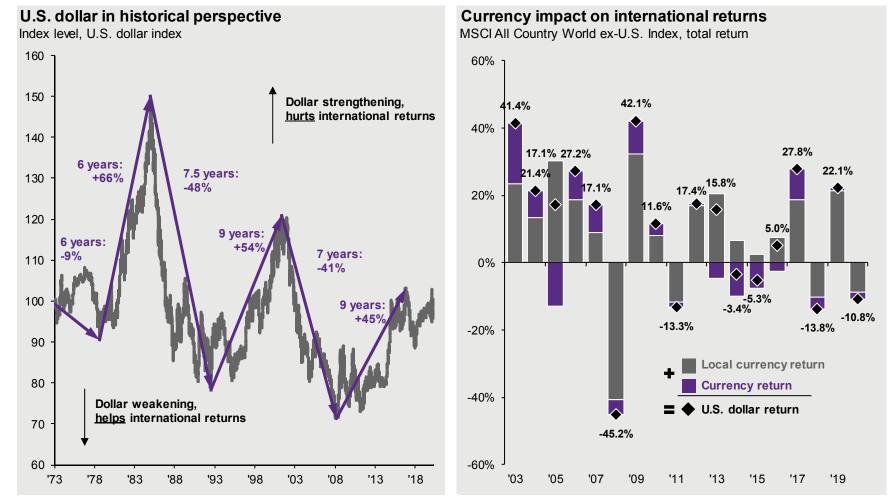


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GTM - U.S.

Currency and international equity returns

GTM - U.S. | 47



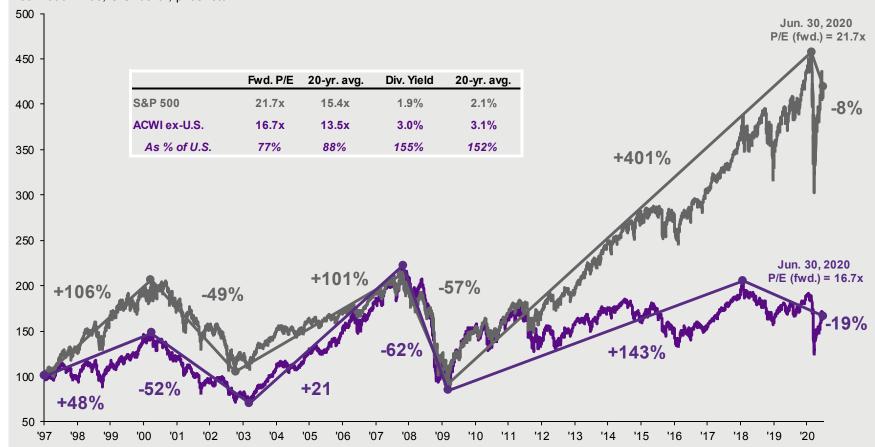
Source: FactSet, J.P. Morgan Asset Management; (Left) Federal Reserve, ICE; (Right) MSCI. Currencies in the U.S. Dollar Index are: British pound, Canadian dollar, euro, Japanese yen, Swedish krona and Swiss franc. Data for the U.S. Dollar Index are back-tested and filled in from March 9, 1973 and January 17, 1986 using the Federal Reserve's nominal trade-weighted broad currency index. Past performance is not a reliable indicator of current and future results. *Guide to the Markets – U.S.* Data are as of June 30, 2020.



U.S. and international equities at inflection points

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

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



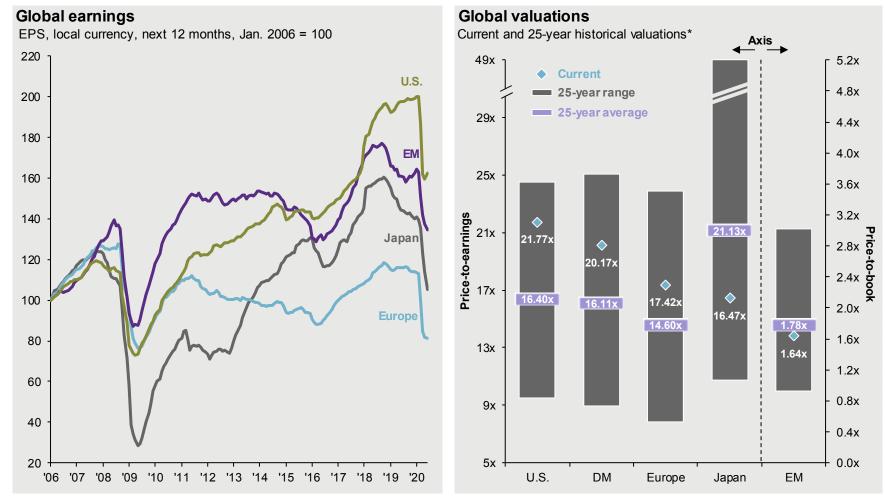
Source: FactSet, MSCI, Standard & Poor's, J.P. Morgan Asset Management.

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, 2020.

J.P.Morgan

International equity earnings and valuations

GTM - U.S. | 49



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

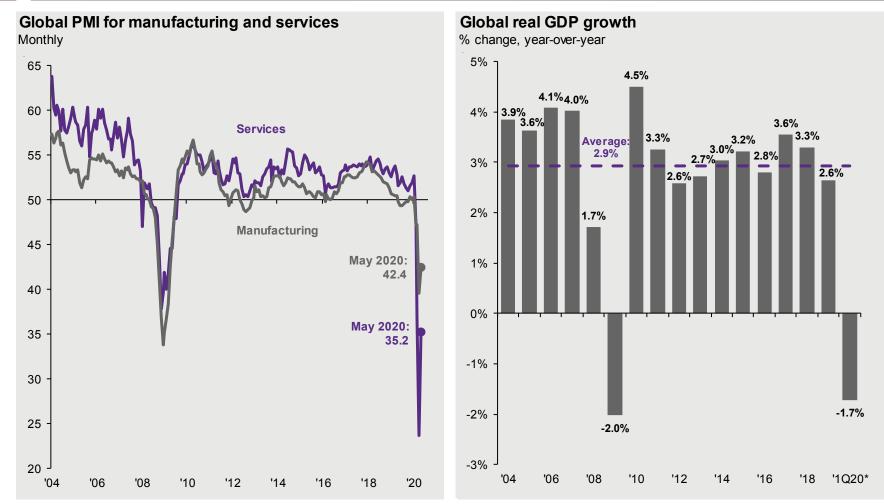
*Valuations refer to NTMA P/E for Europe, U.S., Japan and developed markets and P/B for emerging markets. Valuation and earnings charts use MSCI indices for all regions/countries, except for the U.S., which is the S&P 500. All indices use IBES aggregate earnings estimates, which may differ from earnings estimates used elsewhere in the book. MSCI Europe includes the eurozone as well as countries not in the currency bloc, such as Norway, Sweden, Switzerland and the UK (which collectively make up 45% of the overall index). Past performance is not a reliable indicator of current and future results.



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Global economic growth

J.P.Morgan Asset Management

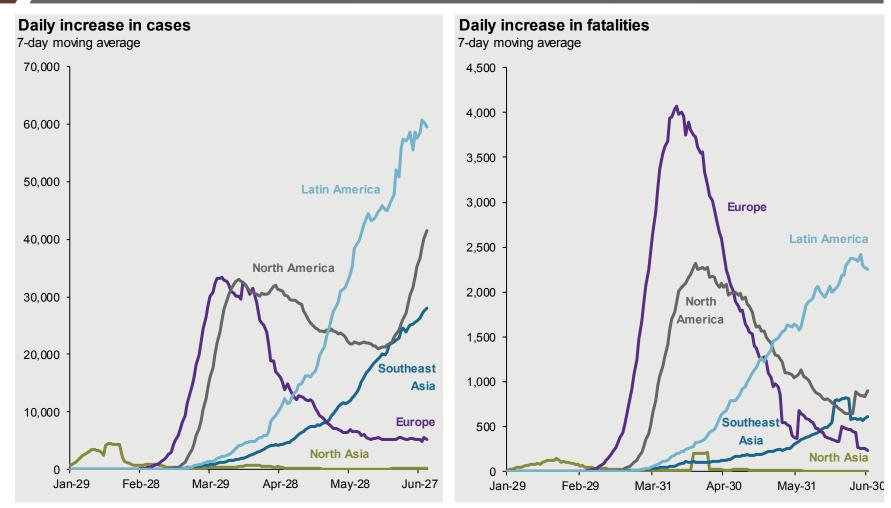


Source: J.P. Morgan Asset Management; (Left) Markit; (Right) J.P. Morgan Global Economic Research.

PMI is the Purchasing Managers' Index. Global GDP growth is a GDP-weighted measure of real GDP at U.S. dollar market exchange rates. *1Q20 is a forecast.

Guide to the Markets – U.S. Data are as of June 30, 2020.

COVID-19: Global confirmed cases and fatalities



Source: Johns Hopkins CSSE, J.P. Morgan Asset Management.

North Asia countries are China, Hong Kong, Japan, South Korea and Taiwan. Southeast Asia includes Singapore, India, Indonesia, Malaysia, Pakistan, Philippines, Thailand, Bangladesh, Sri Lanka and Vietnam. North America includes Canada and U.S. Europe includes eurozone countries, Bulgaria, Croatia, Czech Republic, Denmark, Hungary, Poland, Romania, Sweden, United Kingdom, and Switzerland. Latin America countries are Chile, Brazil, Mexico, Argentina, Colombia, Peru, Venezuela, Ecuador, Panama, Paraguay, Costa Rica, Bolivia, Uruguay, El Salvador, Honduras, Cuba, Dominican Republic, Haiti, and Nicaragua. *Guide to the Markets – U.S.* Data are as of June 30, 2020.

J.P.Morgan Asset Management

Global high-frequency economic activity

% from baseline*, retail and recreation, 7-day moving average % from baseline*, retail and recreation, 7-day moving average 20% 20% South Korea 0% 0% aiwan Russia -20% -20% Japan South Africa U.S. -40% -40% **Brazil** Mexico Spain Germanv -60% -60% India UK -80% France -80% -100% -100% Feb-21 Mar-12 Apr-01 Apr-21 May-11 May-31 Jun-20 Apr-21 Feb-21 Mar-12 Apr-01 May-11 May-31 Jun-20

Mobility in EM countries

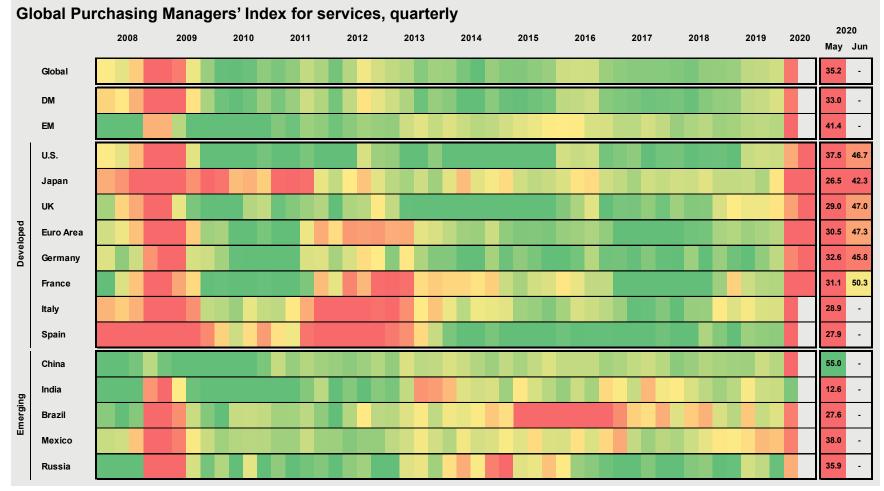
Source: Google Mobility Reports, J.P. Morgan Asset Management.

Mobility in DM countries

*The baseline is the median for the corresponding day of the week, during the 5-week period between January 3 and February 6 of 2020. Guide to the Markets – U.S. Data are as of June 30, 2020.



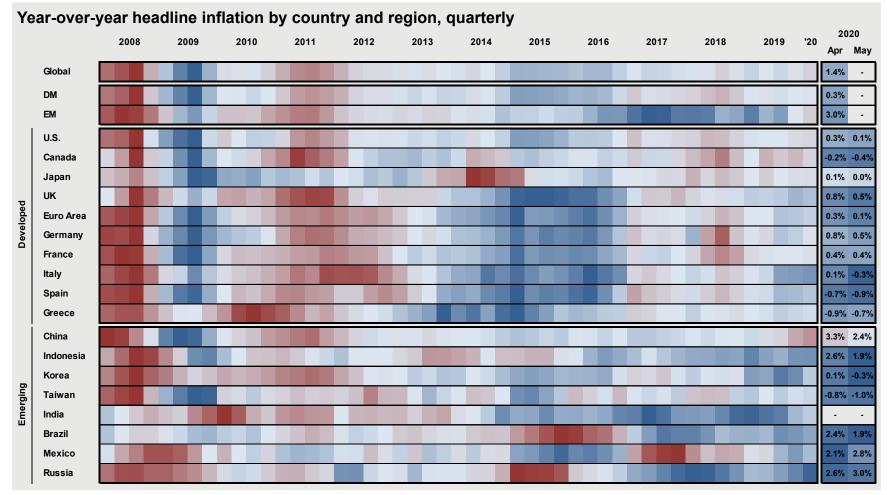
Services momentum



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 the U.S. are back-tested and filled in from December 2007 to September 2008 due to lack of existing PMI figures. DM and EM represent developed markets and emerging markets, respectively. Past performance is not a reliable indicator of current and future results. *Guide to the Markets – U.S.* Data are as of June 30, 2020.

Global inflation



Source: Bank of Mexico, DGBAS, Eurostat, FactSet, Federal Reserve, Goskomstat of Russia, IBGE, India Ministry of Statistics & Programme Implementation, Japan Ministry of Internal Affairs & Communications, Korean National Statistical Office, Melbourne Institute, National Bureau of Statistics China, Statistics Canada, Statistics Indonesia, UK Office for National Statistics (ONS), J.P. Morgan Asset Management. Heatmap is based on guarterly averages, with the exception of the two most recent figures, which are single month readings. Colors determined by percentiles of inflation values over the last 10 years. Deep blue = lowest value, light blue = median, deep red = highest value. DM and EM represent developed markets and emerging markets, respectively.

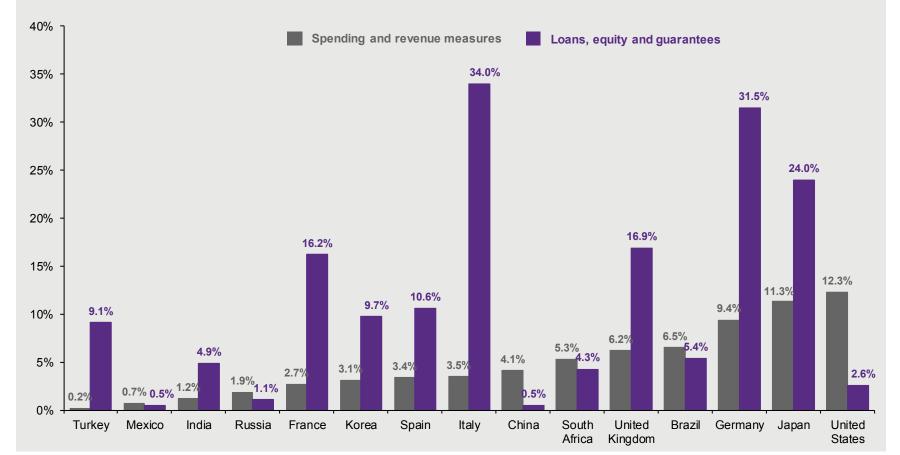
International

Guide to the Markets – U.S. Data are as of June 30, 2020.

Global fiscal support

Fiscal response to COVID-19

% of GDP

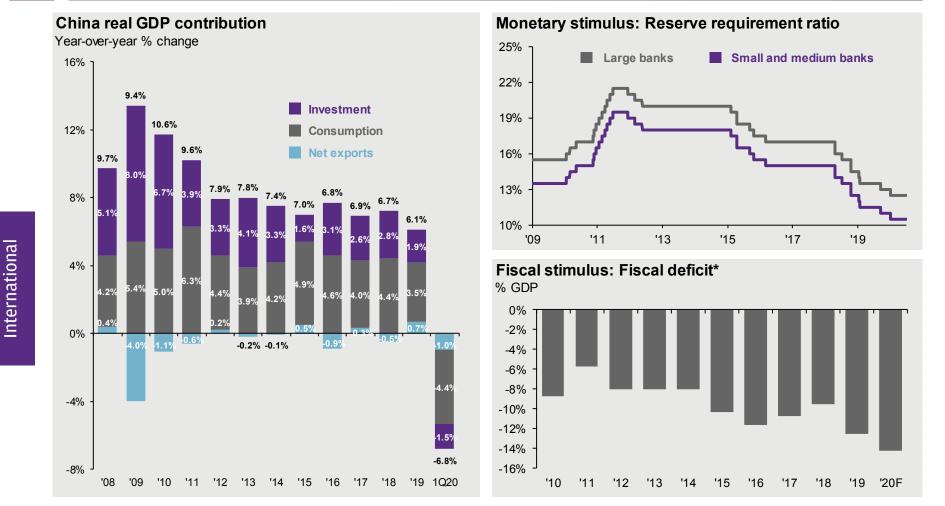


Source: IMF Fiscal Monitor, J.P. Morgan Asset Management. Fiscal measures are estimates from the IMF's Fiscal Monitor Database from June 2020. *Guide to the Markets – U.S.* Data are as of June 30, 2020.



China: Economic growth

GTM - U.S. | 56



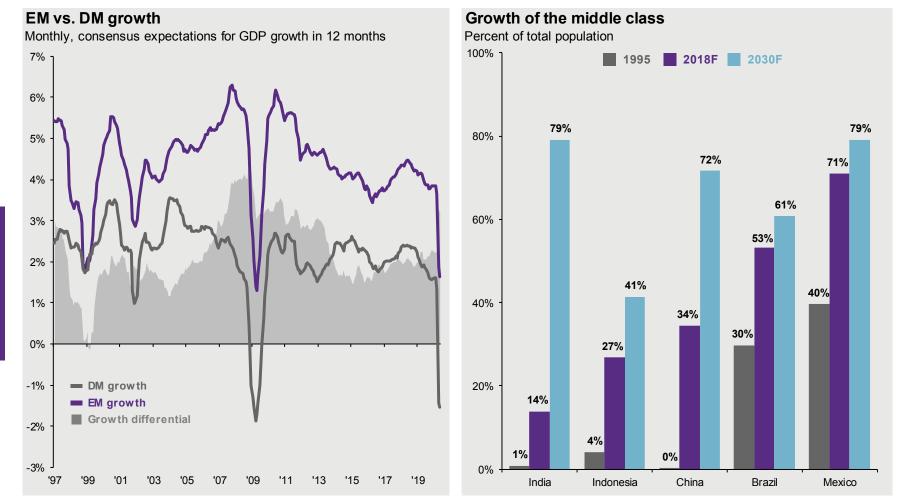
Source: FactSet, J.P. Morgan Asset Management; (Left) CEIC; (Top right) People's Bank of China; (Bottom right) China Agriculture Development Bank, China Development Bank, Ministry of Finance, People's Bank of China, Wind. *The fiscal deficit is a J.P. Morgan Asset Management estimate of the augmented fiscal deficit. It measures the aggregate resources controlled by the government and used to support economic growth. It consists of the official budgetary deficit of the central and local governments, and additional funding raised and spent by local governments through Local Government Financing Vehicles (LGFVs) and various government-guided funds, whose activities are considered quasi-fiscal. *Guide to the Markets – U.S.* Data are as of June 30, 2020.



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Emerging markets

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Source: J.P. Morgan Asset Management; (Left) Consensus Economics; (Right) Brookings Institute. "Growth differential" is consensus estimates for EM growth in the next 12 months minus consensus estimates for DM growth in the next 12 months, provided by Consensus Economics. Middle class is defined as \$3,600-\$36,000 annual per capita income in purchasing power parity terms. Historical and forecast figures come from the Brookings Development, Aid and Governance Indicators. *Guide to the Markets – U.S.* Data are as of June 30, 2020.



Correlations and volatility

U.S.

EM	
Bond	
Corp. H	
Mun	
Currencie	
EM	
Commoditie	ives
REIT	rnativ
Hedge fund	Alte

	Large Cap	EAFE	EME	Bonds	Corp. HY	Munis	Currcy.	EMD	Cmdty.	REITs	Hedge funds	Private equity	Gold	Ann. Volatility
U.S. Large Cap	1.00	0.89	0.80	-0.20	0.85	0.02	-0.35	0.66	0.62	0.75	0.90	0.75	-0.04	15%
EAFE		1.00	0.91	-0.22	0.84	0.01	-0.52	0.72	0.64	0.62	0.91	0.87	0.08	16%
EME			1.00	-0.09	0.83	0.09	-0.63	0.81	0.67	0.55	0.81	0.76	0.30	19%
Bonds				1.00	0.00	0.82	-0.06	0.31	-0.10	0.12	-0.24	-0.29	0.69	3%
Corp. HY					1.00	0.18	-0.43	0.85	0.77	0.75	0.84	0.64	0.17	8%
Munis						1.00	-0.14	0.51	0.05	0.38	-0.02	-0.21	0.58	4%
Currencies							1.00	-0.54	-0.51	-0.15	-0.29	-0.57	-0.47	7%
EMD								1.00	0.65	0.65	0.66	0.42	0.50	7%
Commodities									1.00	0.46	0.66	0.53	0.30	16%
REITS										1.00	0.65	0.35	0.04	16%
Hedge funds											1.00	0.76	-0.04	6%
Private equity												1.00	-0.01	6%
Gold													1.00	15%

Source: Barclays Inc., Bloomberg, Cambridge Associates, Credit Suisse/Tremont, FactSet, Federal Reserve, MSCI, Standard & Poor's, J.P. Morgan Asset Management.

Indices used – Large Cap: S&P 500 Index; Currencies: Federal Reserve Trade Weighted Dollar; EAFE: MSCI EAFE; EME: MSCI Emerging Markets; Bonds: Bloomberg Barclays Aggregate; Corp HY: Bloomberg Barclays Corporate High Yield; EMD: Bloomberg Barclays Emerging Market; Cmdty.: Bloomberg Commodity Index; REIT: NAREIT All equity Index; Hedge Funds: CS/Tremont Hedge Fund Index; Private equity: Cambridge Associates Global Buyout & Growth Index; Gold: Gold continuous contract (\$/oz). Private equity data are reported on a one- to two-quarter lag. All correlation coefficients and annualized volatility are calculated based on quarterly total return data for period 6/30/10 to 6/30/20, except for Private equity, which

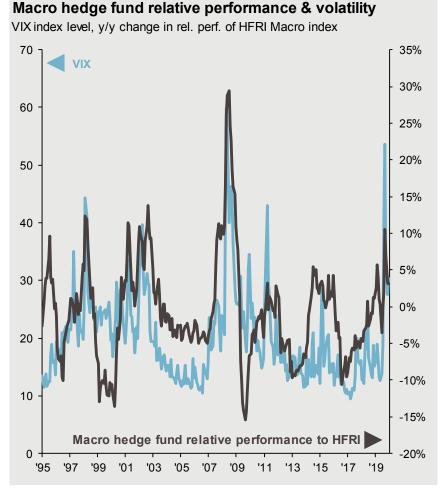


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GTM - U.S.

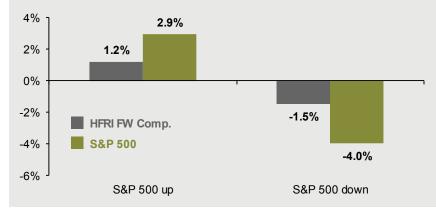
is based on the period from 12/31/09 to 12/31/19. This chart is for illustrative purposes only. Guide to the Markets – U.S. Data are as of June 30, 2020.

Hedge funds



Hedge fund returns in different market environments

Average return in up and down months for S&P 500



Hedge fund returns in different market environments

Average return in up and down months for Bloomberg Barclays Agg.



Source: Barclays, Bloomberg, FactSet, Hedge Fund Research Indices (HFRI), Standard & Poor's, J.P. Morgan Asset Management. HFRI Macro Index - Investment managers that 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. Managers employ a variety of techniques, both discretionary and systematic analysis, combinations of top down and bottom up theses, quantitative and fundamental approaches and long- and short-term holding periods. *Guide to the Markets – U.S.* Data are as of June 30, 2020.

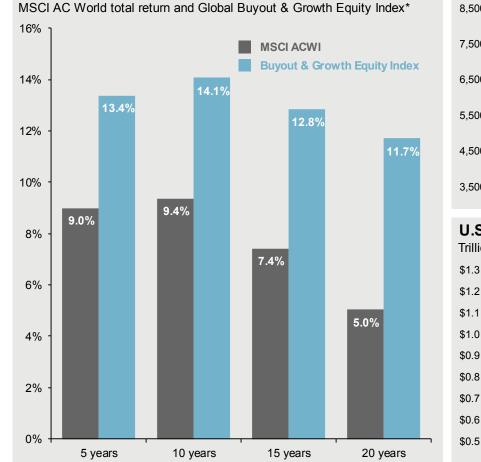


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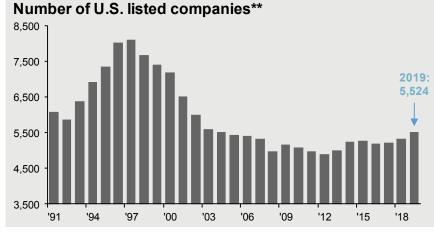
GTM - U.S.

Private equity

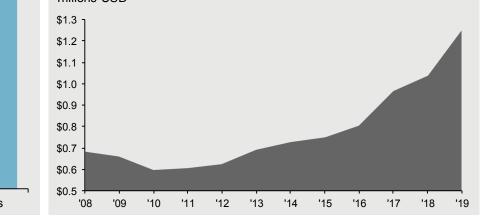
GTM - U.S. | 60



Public vs. private equity returns



U.S. private equity dry powder Trillions USD



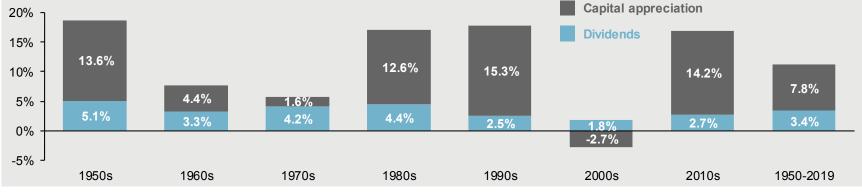
Sources: Cambridge Associates, Prequin, Standard & Poor's, World Federation of Exchanges, J.P. Morgan Asset Management. *Global Buyout & Growth Equity and MSCI AC World total return data are as of December 31, 2019. **Number of listed U.S. companies is represented by the sum of number of companies listed on the NYSE and the NASDAQ. *Guide to the Markets – U.S.* Data are as of June 30, 2020.

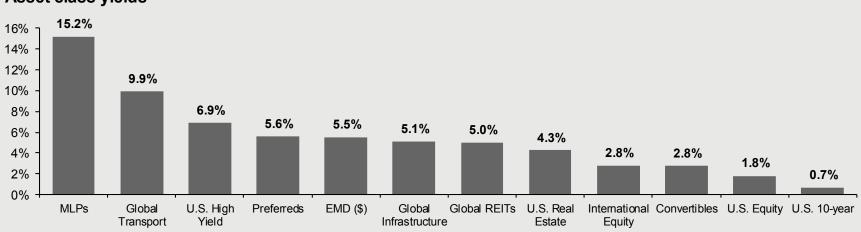


Yield alternatives: Domestic and global

S&P 500 total return: Dividends vs. capital appreciation

Average annualized returns





Source: FactSet, Standard & Poor's, J.P. Morgan Asset Management; (Top) Ibbotson; (Bottom) Alerian, BAML, Barclays, Bloomberg, Clarkson, Drewry Maritime Consultants, Federal Reserve, FTSE, J.P. Morgan, MSCI, NCREIF. Dividend vs. capital appreciation returns are through 12/31/19. Yields are most current, except Global Transport, U.S. Real Estate (12/31/19) and Global Infrastructure (9/30/19). Global Transport: Levered yields for transport assets are calculated as the difference between charter rates (rental income), operating expenses, debt amortization and interest expenses, as a percentage of equity value. Yields for each of the sub-vessel types above are calculated and respective weightings are applied to each of the sub-vessel types above are calculated and respective weightings are applied to each of the sub-sectors to arrive at the current levered yields for Global Transportation; MLPs: Alerian MLP ETF; Preferreds: BAML Hybrid Preferred Securities; U.S. High Yield: Bloomberg US Corporate High Yield; Global Infrastructure: MSCI Global Infrastructure Asset Index-Low risk; Global REITs: FTSE NAREIT Global REITs; EMD(\$): J.P. Morgan EMBIG Diversified; Convertibles: Bloomberg Barclays U.S. Convertibles Composite; International Equity: MSCI AC World ex-U.S.; U.S. 10-year: Tullett Prebon; U.S. Equity: MSCI USA. *Guide to the Markets – U.S.* Data are as of June 30, 2020.

Asset class yields

Alternatives

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J.P.Morgan Asset Management

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Global commodities

Commodity prices Gold prices Commodity price z-scores USD per ounce -4 -3 -2 -1 0 2 3 5 \$2,500 Jun. 30, 2020: \$1.801 Gold, Inflation adjusted Bloomberg \diamond \$59.48 \$175.42 \$2,000 Commodity Index Gold \$64.98 \$1,500 \$41.63 Livestock \$16.21 |\$17.72 \$1,000 \$1.55 \$6.15 Natural gas \$1.64 \$500 \$34.15 🔷 \$97.67 Agriculture \$0 \$35.37 '95 '80 '85 '90 '00' '05 '10 '15 '20 \$113.93 Crude oil \$11.57 \diamond Commodity prices and inflation \$39.27 Year-over-year % change \$84.23 Industrial metals \$211.51 \bigcirc 8% 80% \$104.53 **Headline CPI** Bloomberg Commodity Index 6% 60% \$48.60 Silver \$11.77 \bigcirc 4% 40% \$18.64 2% Gold \$1,050 \$1.892 20% \$1.801 0% 0% -2% -20% -4% -40% Example Low level High level -6% -60% Current '00' '02 '06 '08 '10 '18 '04 '12 '16 '14

Source: FactSet, J.P. Morgan Asset Management; (Left) Bloomberg, CME; (Top right) BLS, CME; (Bottom right) Bloomberg, BLS. Commodity prices are represented by the appropriate Bloomberg Commodity sub-index. Crude oil shown is WTI. Other commodity prices are represented by futures contracts. Z-scores are calculated using daily prices over the past 10 years. *Guide to the Markets – U.S.* Data are as of June 30, 2020.



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Asset class returns

2019

Large

31.5%

REITs

28.7%

Small

25.5%

Equity

22.7%

Asset

Alloc.

19.5%

Equity

18.9%

High

Yield

12.6%

Fixed

Comdty.

7.7%

Cash

2.2%

YTD

Cash

0.5%

Large

Cap

-3.1%

Asset

Alloc.

-4.5%

High

Yield

-4.7%

Equity

9.7%

DM

Equity

Small

13.0%

REITs

13.3%

Comdty.

-19.4%

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	EM Equity	REITs	EM Equity	Fixed Income	EM Equity	REITs	REITs	REITs	Small Cap	REITs	REITs	Small Cap	EM Equity	Cash
	34.5%	35.1%	39.8%	5.2%	79.0%	27.9%	8.3%	19.7%	38.8%	28.0%	2.8%	21.3%	37.8%	1.8%
	Comdty.	EM Equity	Comdty.	Cash	High Yield	Small Cap	Fixed Income	High Yield	Large Cap	Large Cap	Large Cap	High Yield	DM Equity	Fixed Income
	21.4%	32.6%	16.2%	1.8%	59.4%	26.9%	7.8%	19.6%	32.4%	13.7%	1.4%	14.3%	25.6%	0.0%
	DM	DM Equity	DM	Asset	DM	EM	High Yield	EM	DM	Fixed	Fixed	Large	Large	REITs
	Equity 14.0%	Equity 26.9%	Equity 11.6%	Alloc. -25.4%	Equity 32.5%	Equity 19.2%	3.1%	Equity 18.6%	Equity 23.3%	Income 6.0%	Income 0.5%	Cap 12.0%	Cap 21.8%	-4.0%
	REITs	Small	Asset	High	REITs	Comdty.	Large	DM	Asset	Asset	Cash	Comdty.	Small	High
	12.2%	Cap 18.4%	Alloc. 7.1%	Yield - 26.9%	28.0%	16.8%	Cap 2.1%	Equity 17.9%	A <mark>90c.</mark> 14.9%	Alloc. 5.2 %	0.0%	11.8%	Cap 14.6%	Yield - 4.1%
	Asset	Large	Fixed	Small	Small	Large	Cash	Small	High	Small	DM	EM	Asset	Large
	Alloc. 8.1%	Cap 15.8%	Income 7.0%	Cap -33.8%	Cap 27.2%	Cap 15.1%	0.1%	Cap 16.3%	Yield 7.3%	Cap 4.9%	Equity -0.4%	Equity 11.6%	Alloc. 14.6%	Cap -4.4%
	Large	Asset	Large	Comdty.	Large	High	Asset	Large	REITs	Cash	Asset	REITs	High	Asset
	Cap 4.9%	Aboorc. 15.3%	Cap 5.5%	- 35.6%	Cap 26.5%	Yield 14.8%	Allec.	Cap 16.0%	2.9%	0.0%	Albec. - 2.0 %	8.6%	Yield 10.4%	AN w c. - 5.8%
	Small	High		Large	Asset	Asset	Small	Asset		High	High	Asset		Small
	Сар	Yield	Cash	Cap	Alec.	Alloc.	Cap	Alloc.	Cash	Yield	Yield	Autoc.	REITS	Сар
	4.6%	13.7%	4.8%	-37.0%	25.0%	13.3%	-4.2%	12.2%	0.0%	0.0%	-2.7%	8.3%	8.7%	- 11.0%
	High Yield	Cash	High Yield	REITS	Comdty.	DM Equity	DM Equity	Fixed Income	Fixed Income	EM Equity	Small Cap	Fixed Income	Fixed Income	Comdty.
S a	3.6%	4.8%	3.2%	-37.7%	18.9%	8.2%	- 11.7 %	4.2%	-2.0%	- 1.8%	-4.4%	2.6%	3.5%	- 11.2%
Investing principles	Cash	Fixed	Small	DM	Fixed	Fixed	Comdty.	Cash	EM	DM	EM	DM	Comdty.	DM
ves inc	3.0%	Income 4.3%	Cap - 1.6%	Equity - 43.1%	Income 5.9%	Income 6.5%	- 13.3%	0.1%	Equity - 2.3%	Equity - 4.5%	Equity - 14.6%	Equity 1.5%	1.7%	Equity - 13.4%
pri	Fixed	Comdty.	REITs	EM	Cash	Cash	EM	Comdty.	Comdty.	Comdty.	Comdty.	Cash	Cash	EM
	Income 2.4%	2.1%	- 15.7%	Equity - 53.2%	0.1%	0.1%	Equity - 18.2%	- 1.1%	- 9.5%	- 17.0%	-24.7%	0.3%	0.8%	Equity - 14.2%
										lorgan Ass			0.070	14.2 /0
										AFE Com			modity Inc	lov High

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, Cash: Bloomberg Barclays 1-3m Treasury. 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 12/31/04 - 12/31/19. Please see disclosure page at end for index definitions. All data represents total return for stated period. The "Asset Allocation" portfolio is for illustrative purposes only. Past performance is not indicative of future returns.

J.P.Morgan Asset Management

Guide to the Markets – U.S. Data are as of June 30, 2020.

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63 GTM - U.S.

Ann.

Large

Сар

9.0%

REITs

8.3%

Small

7.9%

Equity

7.8%

High

Yield

7.2%

Asset

Alloc.

6.6%

DM

Equity

5.3%

Fixed

Income

Cash

1.3%

Comdty.

-2.6%

2005 - 2019

Vol.

REITs

22.2%

Equity

22.1%

Comdty.

18.6%

Small

17.7%

DM

Equity

17.3%

Large

Сар

14.0%

High

Y ie Id

10.9%

Asset

Alloc.

10.0%

Cash

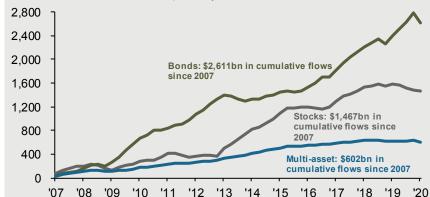
1.0%

Fund flows

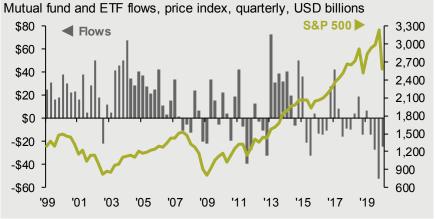
		Registered product flows																	
USD billions	AUM	YTD	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003
U.S. equity	8,784	(51)	(85)	1	28	(8)	(13)	104	174	(32)	(32)	25	20	(3)	18	71	110	171	141
World equity	3,229	(25)	10	87	247	14	212	144	201	62	22	85	55	(35)	183	167	133	88	40
Taxable bond	4,327	(38)	414	121	389	215	45	74	20	299	169	226	309	61	106	54	46	29	44
Tax-free bond	833	(15)	105	11	34	32	22	34	(53)	50	(8)	13	71	12	14	17	7	(6)	(3)
Multi-asset	2,603	(41)	20	(10)	60	30	57	92	93	50	30	62	40	15	97	77	81	82	50
Liquidity	4,602	1,103	578	241	118	149	50	45	33	(5)	(55)	(336)	(230)	645	487	165	67	(34)	(92)

Cumulative flows into long-term asset products





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



Source: Strategic Insight Simfund, J.P. Morgan Asset Management. All data include flows through May 2020 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 June 30, 2020.



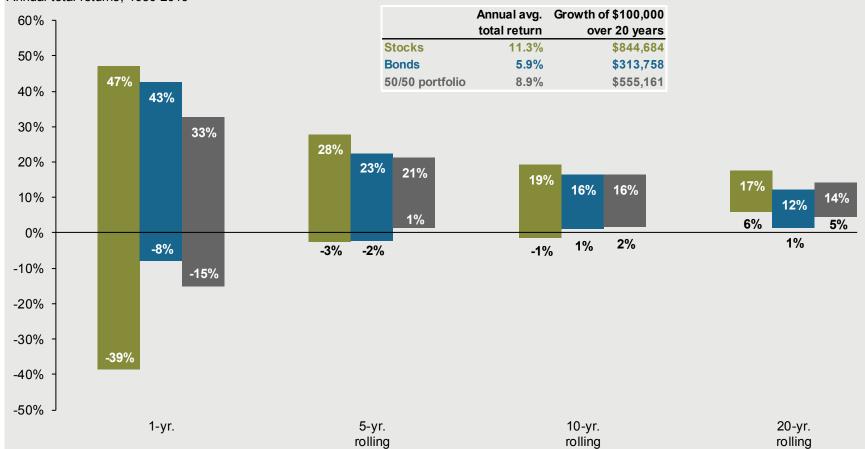
GTM - U.S.

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Time, diversification and the volatility of returns

Range of stock, bond and blended total returns

Annual total returns, 1950-2019



Source: Barclays, Bloomberg, FactSet, Federal Reserve, Robert Shiller, Strategas/Ibbotson, J.P. Morgan Asset Management. Returns shown are based on calendar year returns from 1950 to 2019. Stocks represent the S&P 500 Shiller Composite and Bonds represent Strategas/Ibbotson for periods from 1950 to 2010 and Bloomberg Barclays Aggregate thereafter. Growth of \$100,000 is based on annual average total returns from 1950 to 2019. *Guide to the Markets – U.S.* Data are as of June 30. 2020.

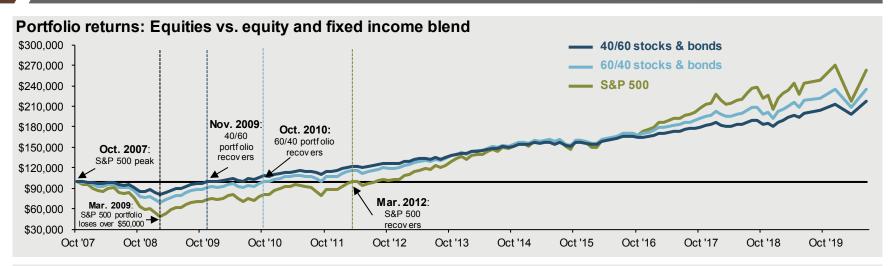


Investing principles

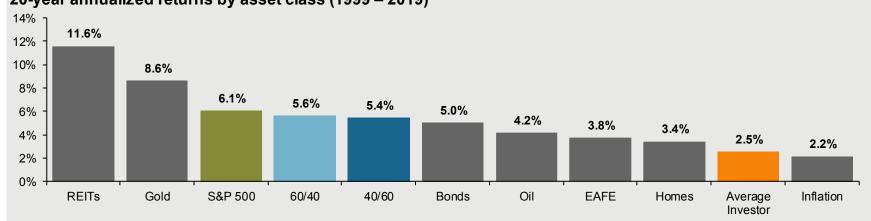
Diversification and the average investor

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Asset Management



20-year annualized returns by asset class (1999 - 2019)

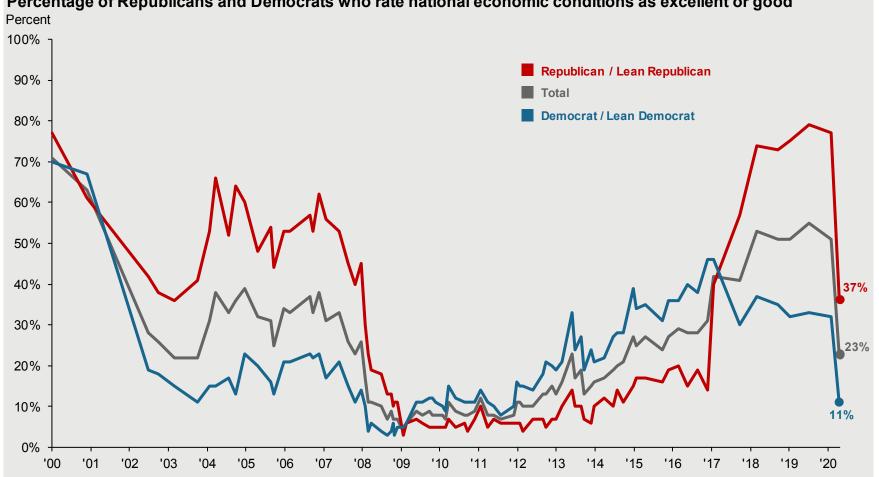


Source: J.P. Morgan Asset Management; (Top) Barclays, Bloomberg, FactSet, Standard & Poor's; (Bottom) Dalbar Inc. Indices used are as follows: REITS: NAREIT Equity REIT Index, EAFE: MSCI EAFE, Oil: WTI Index, Bonds: Bloomberg Barclays U.S. Aggregate Index, Homes: median sale price of existing single-family 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 12/31/19 to match Dalbar's most recent analysis.

Investing principles

Guide to the Markets – U.S. Data are as of June 30, 2020.

Consumer confidence by political affiliation

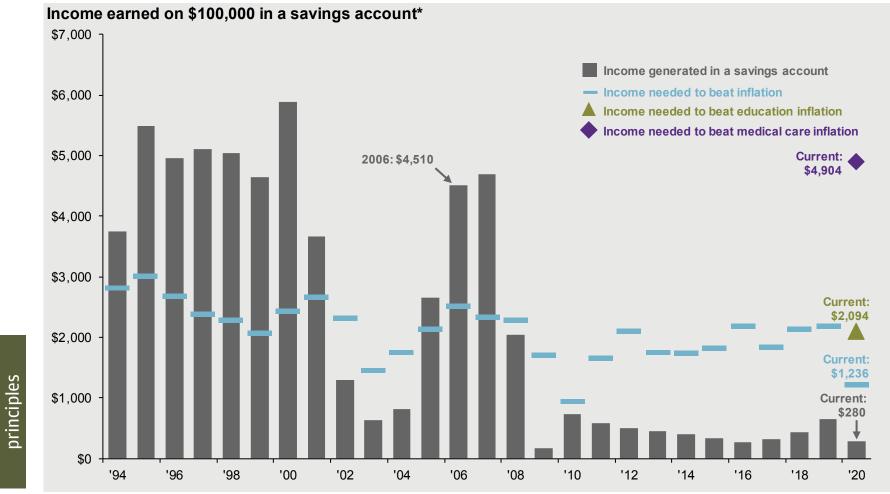


Percentage of Republicans and Democrats who rate national economic conditions as excellent or good

Source: Pew Research Center, J.P. Morgan Asset Management. Pew Research Center, April 2020, "Positive Economic Views Plummet; Support for Government Aid Crosses Party Lines" Question: Thinking about the nation's economy, How would you rate economic conditions in this country today... as excellent, good, only fair, or poor? Guide to the Markets – U.S. Data are as of June 30, 2020.



Cash account returns



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

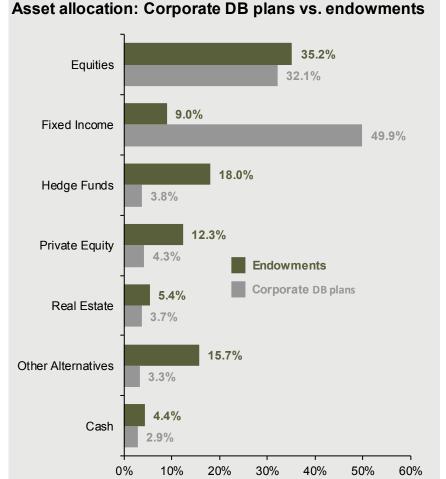
*Savings account is based on the national average annual percentage rate (APR) on money-market accounts from Bankrate.com from 2010 onward. Prior to 2010, money market yield is based on taxable money market funds return data from the Federal Reserve. Annual income is for illustrative purposes and is calculated based on the average money market yield during each year and \$100,000 invested. Current inflation is based on May 2020 Core CPI, education inflation and medical care inflation. Current savings account is based on the June 2020 national average annual percentage rate (APR) on money-market accounts. Past performance is not indicative of comparable future results. *Guide to the Markets – U.S.* Data are as of June 30, 2020.

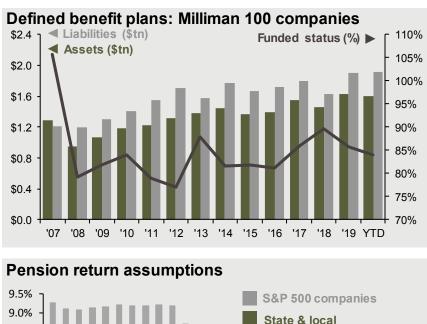


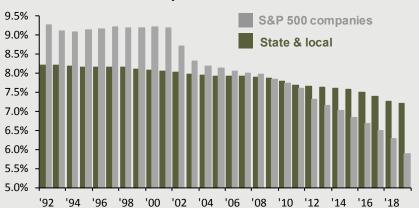
Investing

Institutional investor behavior

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Source: J.P. Morgan Asset Management; (Left) NACUBO (National Association of College and University Business Officers), Towers Watson; (Top right) Milliman Pension Funding Index; (Bottom right) Census for Governments, Compustat, FactSet, S&P 500 corporate 10-Ks. Endowment asset allocation as of 2019. Corporate DB plan asset allocation as of 2018. Endowments represents dollar-weighted average data of 749 colleges and universities. Corporate DB plans represents aggregate asset allocation of Fortune 1000 pension plans. Pension return assumptions based on all available and reported data from S&P 500 Index companies. State and local pension return assumptions are weighted by plan size. Pension assets, liabilities and funded status based on Milliman 100 companies reporting pension data as of May 31, 2020. All information is shown for illustrative purposes only.



Guide to the Markets – U.S. Data are as of June 30, 2020.

Investing principles

J.P. Morgan Asset Management - Index definitions

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 $Russell \,\,Midcap\,\,Index \ensuremath{\mathbb{B}}$ 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 subcomponents 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 quasisovereign 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.



J.P. Morgan Asset Management – Index definitions & disclosures GTM – u.s. | 71

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 only appropriate 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 nodex 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 June 30, 2020 or most recently available.

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