



First Quarter 2021 Investment Environment As of January 9, 2021

This document highlights:

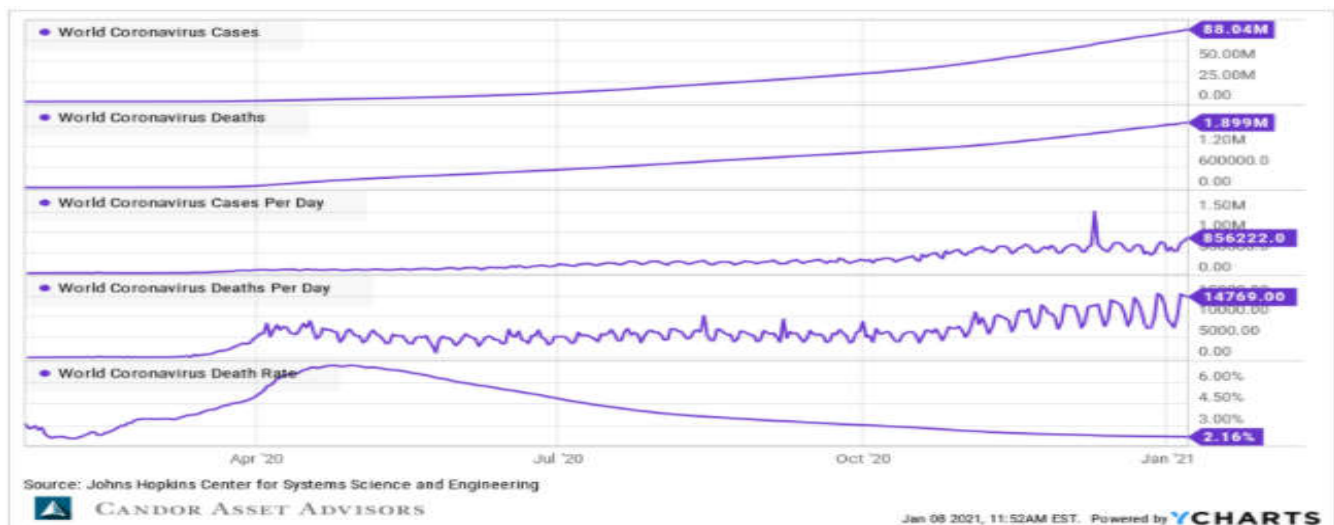
- COVID-19
- The Economic Environment
- Government Monetary and Fiscal Stimulus Activity
- Recessions, Stock Market Corrections, Bear Markets and Recoveries
- Closing Thoughts

Note, we will provide our quarterly investment strategy commentaries in January to February 2021. The commentaries will highlight our strategies' performance, portfolio positioning and areas of opportunity.

COVID-19

COVID-19, otherwise known as the coronavirus, has had a huge negative impact on the world. The first cases of COVID-19 occurred in China in late 2019. COVID-19 spread to Japan, South Korea and Italy and the rest of the world thereafter.

World COVID-19 statistics are presented below¹. Since July 1, 2020 world cases are up from 10.67 million to 88.0 million, deaths are up from 516,237 to 1,899,000, and new cases per day are up from 217,689 to 856,222. Worldwide deaths per day have grown from 5,011 to 14,769. The percentage of individuals that die from COVID-19 complications has fallen from 4.85% to 2.16%. Worth noting, health experts believe the actual number of COVID-19 cases is higher due to the lack of testing and the number of reported deaths is understated due to reporting inconsistencies around causes of death.

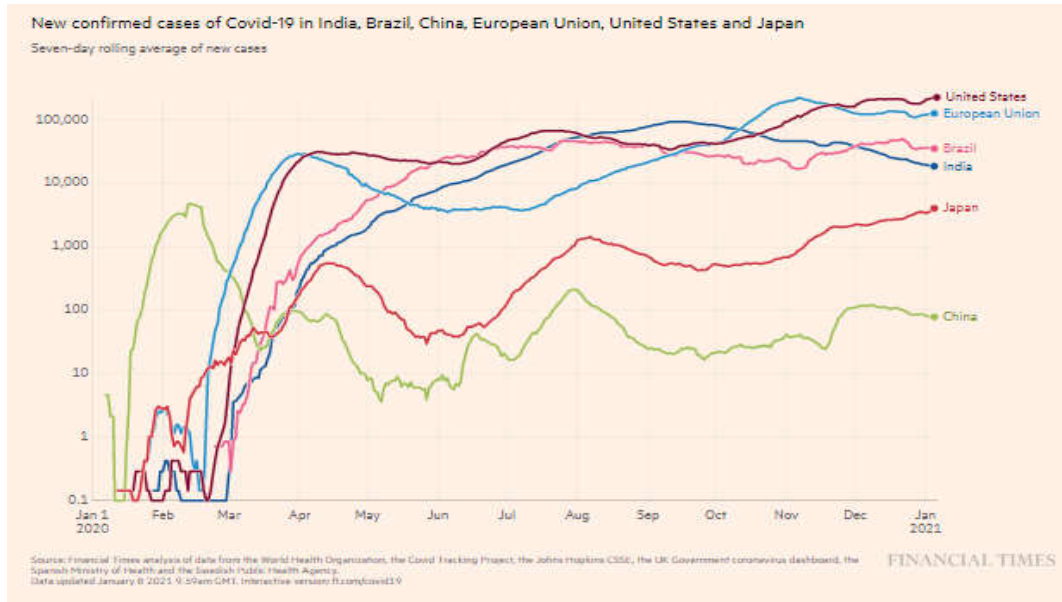


¹ (YCharts, 2021)



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The *Financial Times* has been doing a good job tracking the virus. New case activity increased or was relatively flat in most regions except India in the fourth quarter of 2020².



Government-related shutdowns have played a significant role in reducing economic activity³. Government-related closures generally peaked in April and declined in the second and third quarter. Government-related shutdowns generally escalated in developed countries in the fourth quarter while trends were mixed in emerging markets.

	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21
United States	-	5.4	45.8	72.7	72.7	70.7	68.3	67.1	64.2	64.1	69.6	71.9	71.8
United Kingdom	2.2	11.0	36.6	79.6	74.2	70.9	65.4	67.6	65.6	67.9	71.7	71.2	71.3
France	3.0	12.3	65.7	88.0	80.1	66.2	48.1	47.4	48.4	50.2	78.3	70.3	63.9
Italy	1.5	32.5	84.1	92.6	66.6	52.0	56.0	52.1	50.4	55.8	77.1	81.5	88.0
Germany	1.4	10.2	48.8	76.9	63.8	61.3	56.8	57.9	50.5	55.2	64.0	75.2	83.3
Japan	2.2	21.8	41.2	45.7	41.9	27.8	28.0	32.7	35.6	36.7	38.9	50.2	51.9
Canada	0.9	2.8	39.1	72.9	71.4	70.3	67.6	65.1	61.5	60.7	62.3	64.4	64.4
South Korea	0.1	36.6	62.6	66.6	43.6	53.7	47.2	47.8	51.0	52.6	45.2	56.7	61.7
China	21.6	77.0	79.5	60.2	74.7	78.5	78.2	78.2	60.1	63.1	69.5	79.1	78.2
India	2.2	10.2	54.5	98.6	82.1	76.3	76.7	79.8	79.1	68.1	64.0	69.0	N/A
Brazil	0.5	5.6	44.0	75.0	80.5	77.3	80.0	72.0	69.2	62.7	55.4	59.0	N/A
Russia	0.5	8.3	47.0	85.5	80.7	73.6	69.3	63.1	39.4	45.8	46.2	47.7	47.7

Source: Oxford University Coronavirus Government Response Tracker

According to Wikipedia, “by mid-December 2020, 57 vaccine candidates were in clinical trials including 40 phase I and II trials and 17 phase II and III trials. National regulatory authorities have approved six vaccines for public use.” Consensus forecasts anticipate several additional vaccines will get approved in the US and Europe in the next few quarters. Vaccines are expected to be widely distributed by the second half of 2021 to 2022.

² (FT Visual & Data Journalism Team, 2021)

³ (University of Oxford, 2020)



The Economic Environment

COVID-19's spread continues to confound economists and investors. The IMF summed it up well on March 4, 20: "Under any scenario, global growth in 2020 will drop below last year's level. How far it will fall, and for how long, is difficult to predict, and would depend on the epidemic, but also on the timeliness and effectiveness of our actions."⁴

The global economy is slowly improving from recent lows. Government fiscal and monetary stimulus, which will be discussed in detail later, remain supportive of economic activity. Inflation remains subdued in developed markets. Manufacturing activity is supportive of economic growth. Service activity and retail sales have been mixed. Unemployment remains a sore spot in select countries⁵.

World Economic Statistics																				
	GDP Annualized YoY Growth					Inflation YoY Growth					Short Term Interest Rate					% of World				
	Last Report	Current	Previous	Change	Freq.	Last Report	Current	Previous	Change	Freq.	Last Report	Current	Previous	Change	Freq.	GDP	Population			
US	Sep-20	33.4%	-31.4%	64.8%	Q	Nov-20	1.2%	1.2%	0.0%	M	Dec-20	0.25%	0.25%	0.00%	D	24.5%	4.2%			
Euro Area	Sep-20	12.5%	-11.7%	24.2%	Q	Dec-20	-0.3%	-0.3%	0.0%	M	Dec-20	0.00%	0.00%	0.00%	D	21.4%	5.7%			
Japan	Sep-20	5.3%	-8.3%	13.6%	Q	Nov-20	-0.9%	-0.4%	-0.5%	M	Dec-20	-0.10%	-0.10%	0.00%	D	5.8%	1.6%			
Canada	Sep-20	8.9%	-11.3%	20.2%	Q	Nov-20	1.0%	0.7%	0.3%	M	Dec-20	0.25%	0.25%	0.00%	D	1.9%	0.5%			
South Korea	Sep-20	2.1%	-3.2%	5.3%	Q	Dec-20	0.5%	0.6%	-0.1%	M	Dec-20	0.50%	0.50%	0.00%	D	1.8%	0.7%			
China	Sep-20	2.7%	11.7%	-9.0%	Q	Nov-20	-0.5%	0.5%	-1.0%	M	Jan-21	3.85%	3.85%	0.00%	D	16.2%	18.5%			
India	Sep-20	21.9%	-25.2%	47.1%	S	Nov-20	6.9%	7.6%	-0.7%	M	Dec-20	4.00%	4.00%	0.00%	D	3.3%	17.7%			
Brazil	Sep-20	7.7%	-9.6%	17.3%	S	Nov-20	4.3%	3.9%	0.4%	M	Dec-20	2.00%	2.00%	0.00%	D	2.1%	2.7%			
Russia	Jun-20	-3.2%	-0.9%	-2.3%	Q	Dec-20	4.9%	4.4%	0.5%	M	Dec-20	4.25%	4.25%	0.00%	D	1.8%	1.9%			
	Manufacturing PMI					Service PMI					Unemployment Rate					Retail Sales YoY Growth				
	Last Report	Current	Previous	Change	Freq.	Last Report	Current	Previous	Change	Freq.	Last Report	Current	Previous	Change	Freq.	Last Report	Current	Previous	Change	Freq.
US	Dec-20	57.1	56.7	0.4	M	Dec-20	54.8	58.4	-3.6	M	Dec-20	6.7%	6.7%	0.0%	M	Nov-20	4.1%	5.5%	-1.4%	M
Euro Area	Dec-20	55.2	53.8	1.4	M	Dec-20	46.4	41.7	4.7	M	Dec-20	8.3%	8.4%	-0.1%	M	Nov-20	-2.9%	4.2%	-7.1%	M
Japan	Dec-20	50.0	49.0	1.0	M	Dec-20	47.7	47.8	-0.1	M	Dec-20	2.9%	3.1%	-0.2%	M	Nov-20	0.7%	6.4%	-5.7%	M
Canada	Dec-20	57.9	55.8	2.1	M		NA	NA			Dec-20	8.6%	8.5%	0.1%	M	Oct-20	7.5%	5.6%	1.9%	M
South Korea	Dec-20	52.9	52.9	0.0	M		NA	NA			Nov-20	4.1%	4.2%	-0.1%	M	Nov-20	-1.5%	-0.1%	-1.4%	M
China	Dec-20	53.0	54.9	-1.9	M	Dec-20	56.3	57.8	-1.5	M	Nov-20	5.2%	5.3%	-0.1%	Q	Nov-20	5.0%	4.3%	0.7%	M
India	Dec-20	56.4	56.3	0.1	M	Dec-20	52.3	53.7	-1.4	M	Nov-20	6.5%	7.0%	-0.5%	M		NA	NA		
Brazil	Dec-20	61.5	64.0	-2.5	M	Dec-20	51.1	50.9	0.2	M	Oct-20	14.3%	14.6%	-0.3%	M	Oct-20	8.3%	7.3%	1.0%	M
Russia	Dec-20	49.7	46.3	3.4	M	Dec-20	48.0	48.2	-0.2	M	Nov-20	6.1%	6.3%	-0.2%	M	Nov-20	-3.1%	-1.4%	-1.7%	M
Freq. = Reporting Frequency, M = Monthly, Q = Quarterly, S = Semi Annual, Y = Yearly																				
NA = Not Available																				
Source: Economic Stats- Trading Economics 1/8/21, Population - Worldometers.info, GDP - Wikipedia.org																				

Our analysis suggests:

- The US, Europe, and China are the most important markets to watch as they account for 64% of world GDP⁶. India and China are important emerging markets to watch as they represent 35% of the world's population⁷.
- The economic impact of COVID-19 has been felt across the global economy. COVID-19 is impacting demand (e.g., travel, eating out, entertainment, retail, online shopping, home-related spending) and supply (e.g., services, manufacturing, supply chains, transportation).
- Most 3Q 20 GDP growth figures reflect easy economic growth comparisons associated with COVID-19.
- Inflation has been benign in developed economies and reasonable in most emerging economies. Developed economies have leeway to implement accommodative fiscal and monetary policies.

⁴ (Georgieva, Potential Impact of the Coronavirus Epidemic: What We Know and What We Can Do, 2020)

⁵ (Trading Economics, 2021)

⁶ (Wikipedia, 2019)

⁷ (Wikipedia, 2019)



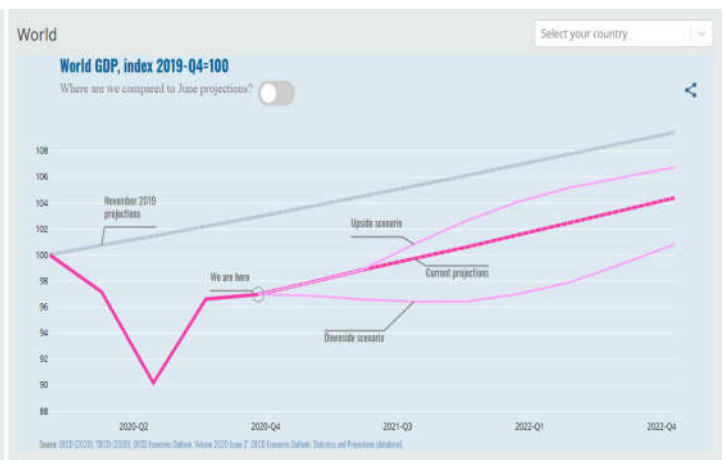
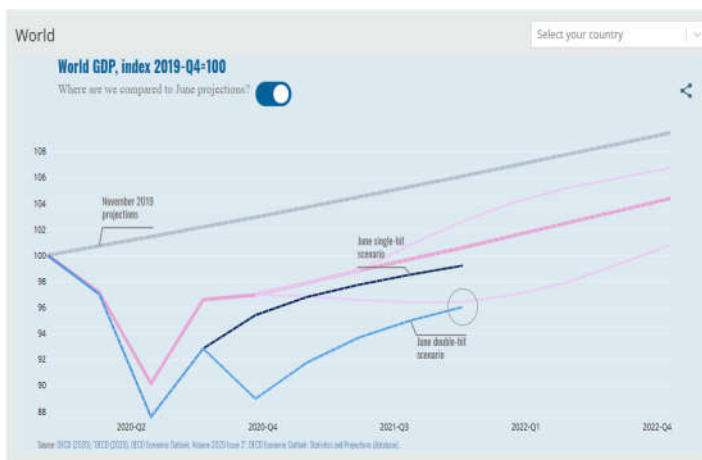
- Interest rates are extremely low in developed economies and low in emerging economies.
- Manufacturing purchasing manager activity has improved in 6 of 9 areas and suggests an expanding manufacturing sector.
- Service purchasing manager activity remains relatively weak versus manufacturing. Service activity is expanding in the US, China, India and Brazil.
- Unemployment remains a sore spot in the Euro Area, Canada, and Brazil. Trends are flat to improving in most countries surveyed.
- Retail sales growth is lackluster in half the areas surveyed. COVID-19 is impacting travel, shopping and eating away from home. In 5 of 8 areas surveyed retail sales have fallen sequentially due to increased government shutdowns.

Key questions going forward are: how long will the recession last and what will the earnings picture look like?

According to data compiled by JP Morgan Asset Management, US real GDP declined 10.1% from the fourth quarter of 2019 through the second quarter of 2020. The percentage decline represents the third largest percentage decline since 1929⁸. The current recession is anticipated to last 3-4 quarters. Worth referencing, US recessions have lasted 17.5 months on average since 1854 and 11 months on average since 1945⁹.

Many believe economic activity will only sustainably improve after COVID-19 vaccines are widely distributed to the population. Consensus forecasts generally expect this occur between the second half of 2021 and the first half of 2022.

Economic forecasts were lowered from 4Q 19 to 2Q 20 and have modestly improved since then. According to The Organization of Economic Development (OECD), the double economic hit scenario is no longer probable. A slightly stronger economic recovery now appears increasingly likely. The graph on the left below highlights the June 2020 projections (blue lines) versus the December 2020 projections (pink lines)¹⁰. The graph on the right below highlights the December 2020 economic scenarios (upside, current and downside).



⁸ (J.P. Morgan Asset Management)

⁹ (The National Bureau of Economic Research, 2021)

¹⁰ (OECD, 2020)

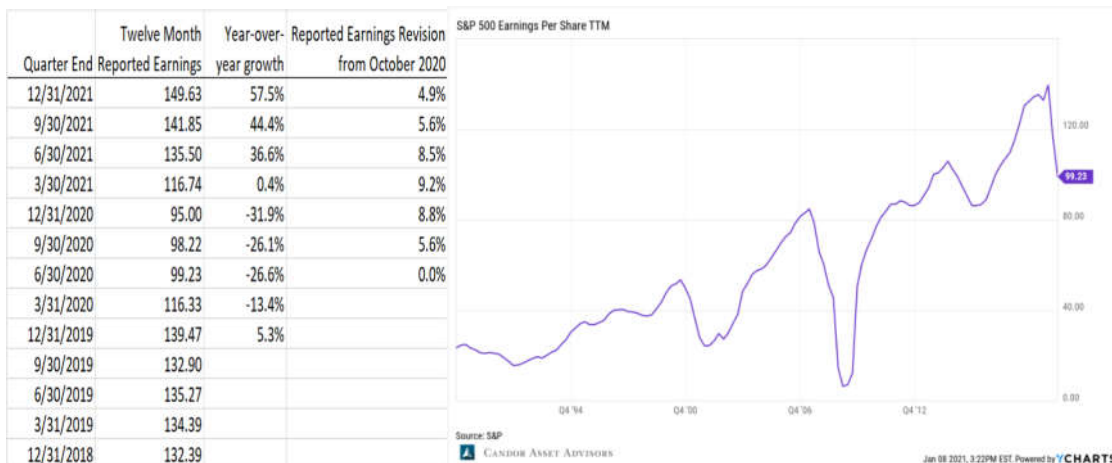


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The OECD believes economic growth will resume on a year-over-year basis in 2021. Also, the OECD believes emerging markets will experience a more rapid recovery in 2021 and 2022¹¹.

OECD December 2020 Economic Outlook Projections				
Real GDP Growth YoY	2020	2021	2022	% of World's GDP
US	-3.7%	3.2%	3.5%	24.5%
Euro Area	-7.5%	3.6%	3.3%	21.4%
Japan	-5.3%	2.3%	1.5%	5.8%
Canada	-5.4%	3.5%	2.0%	1.9%
South Korea	-1.1%	2.8%	3.4%	1.8%
Developed Countries Weighted Average	-5.3%	3.3%	3.2%	55.6%
China	1.8%	8.0%	4.9%	16.2%
India	-9.9%	7.9%	4.8%	3.3%
Brazil	-6.0%	2.6%	2.2%	2.1%
Russia	-4.3%	2.8%	2.2%	1.8%
Emerging Countries Weighted Average	-1.0%	7.1%	4.4%	23.4%

According to data compiled by the S&P, S&P 500 earnings are expected to bottom out in the second half of 2020^{12 13}. Earnings are expected to rebound to pre-COVID levels by the second half of 2021. Earning visibility remains poor, and earnings estimates have modestly improved over the last 90 days.



So how has the US stock market responded? The stock market's response is summarized below^{14 15}. The stock market's quick and substantial rise since March 2020 in the face of the pandemic stands out.

Phase	Time Period	Developments	S&P Move
Denial	11/17/19- 2/19/20	Belief COVID-19 will remain contained and/or the economic impact will be minimal	8.5%
Fear	2/20/20-3/23/20	Fear COVID-19 will spread globally and cause significant economic damage	-33.9%
Hope	3/23/20-Present	Hope new cases will moderate, government easing business restrictions will help, government stimulus will prove effective, and/or medical break throughs will occur	70.6%
Inspired by: Robert Shiller 'Understanding the Pandemic Stock Market', <i>Project Syndicate</i> , 7/7/20			

¹¹ (OECD, 2020)

¹² (Silverblatt, S&P Indices.Com, 2020)

¹³ (YCharts, 2021)

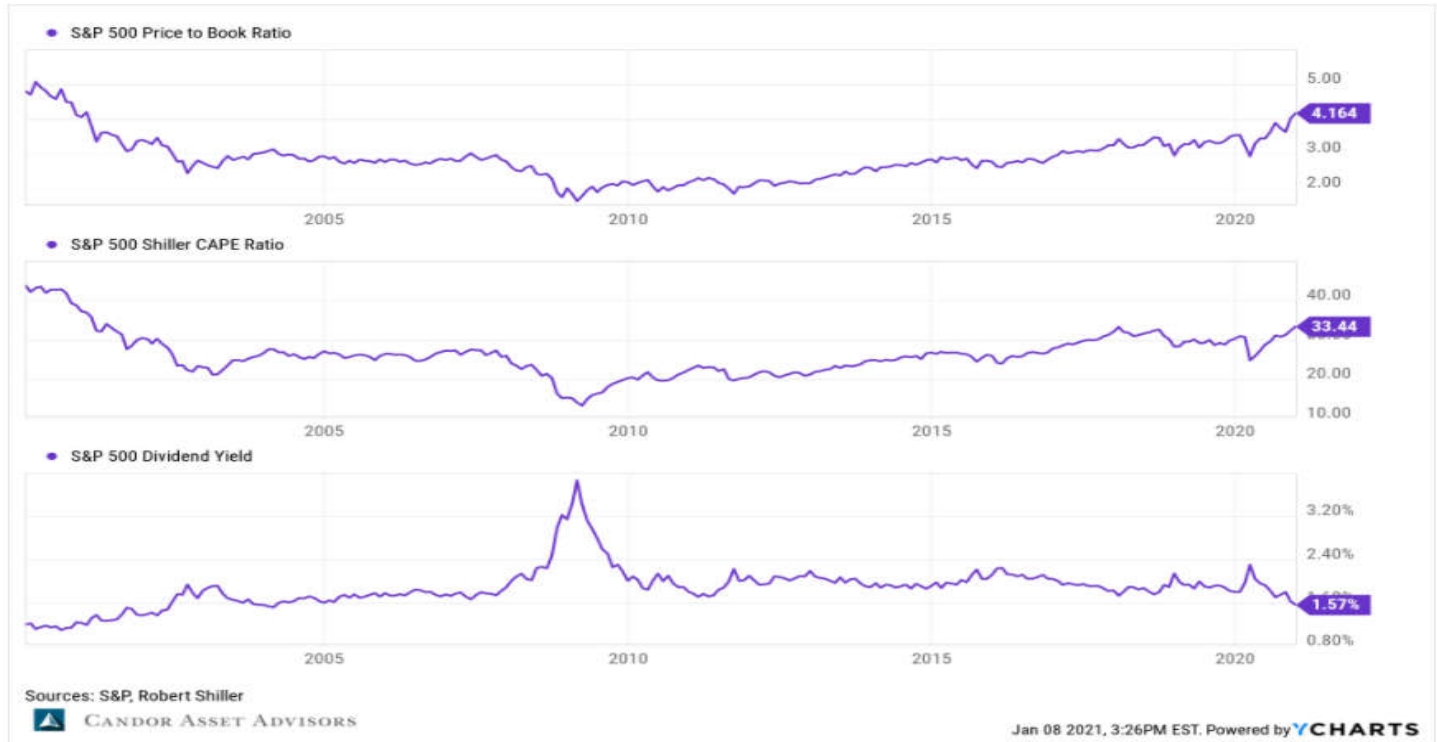
¹⁴ (Shiller, 2020)

¹⁵ (YCharts, 2021)



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The US stock market appears to have priced in a recession and a recovery. Supporting this thesis, the US stock market has recovered to above average levels relative to dividends, book value and 10-year inflation adjusted earnings¹⁶.



It is worth reviewing the US stock market versus international stock markets. The latest relative growth data suggest international and emerging market earnings growth comparisons to the US are expected to improve¹⁷. 2020 earnings growth estimates have modestly improved around the world.

	2019A	2020E	2021E
Revenues			
United States	4.6%	-1.7%	8.1%
International Developed Markets	0.2%	-9.1%	6.7%
International Emerging Markets	5.4%	-0.7%	11.4%
Earnings			
United States	1.6%	-10.8%	20.5%
International Developed Markets	-8.9%	-25.4%	36.7%
International Emerging Markets	-4.3%	-4.1%	33.9%
Source: Yardeni Research MSCI Revenue and Earnings Growth 1/6/21			

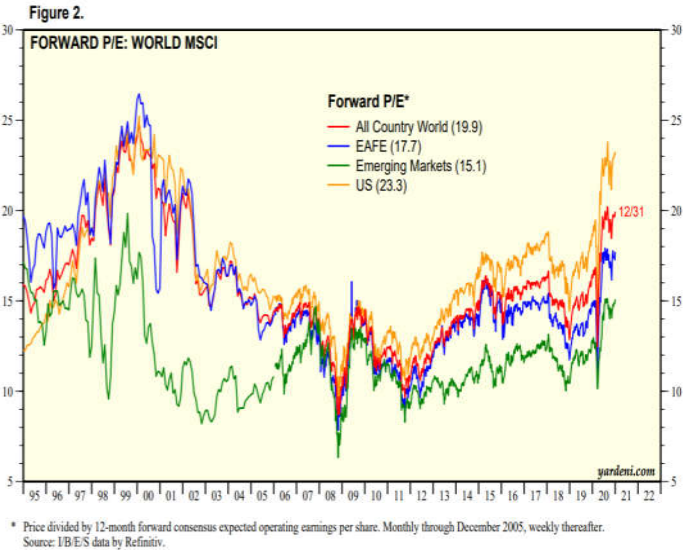
¹⁶ (YCharts, 2021)

¹⁷ (Yardeni, Performance Derby: MSCI Regions/Countries Earnings & Revenue Growth 2021E/ 2020E / 2019A, 2021)



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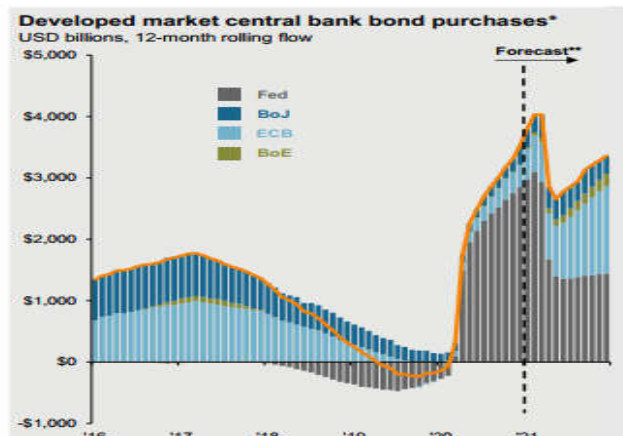
Chinese stocks have outperformed the rest of the world year-to-date as investors have recognized China was the first to go through and address the negative impacts of COVID-19¹⁸. Today US forward price-to-earnings ratios look elevated versus history and the world¹⁹.



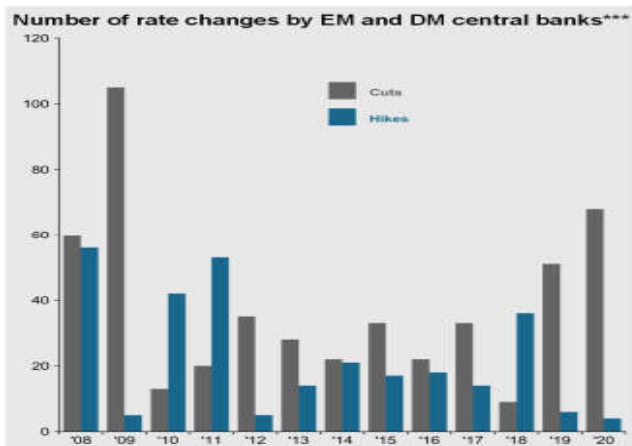
In general, we see better stock investment return prospects abroad. For more information on investment strategy performance, positioning and opportunities please refer to our portfolio commentaries.

Government Monetary and Fiscal Stimulus Activity

Central banks have increased monetary stimulus through asset purchases and lowering interest rates²⁰.



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 \$150bn GBP in net purchases from BoE through December 2021; BoJ QE of \$300bn JPY ann. for 2021; \$1,165bn EUR in net purchases from the ECB through December 2021; and the Federal Reserve to purchase \$600bn of Treasuries, \$480bn of agency MBS through December 2021. Fed assumptions are based on December 2020 policy announcement. ***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 December 31, 2020.



J.P.Morgan
Asset Management

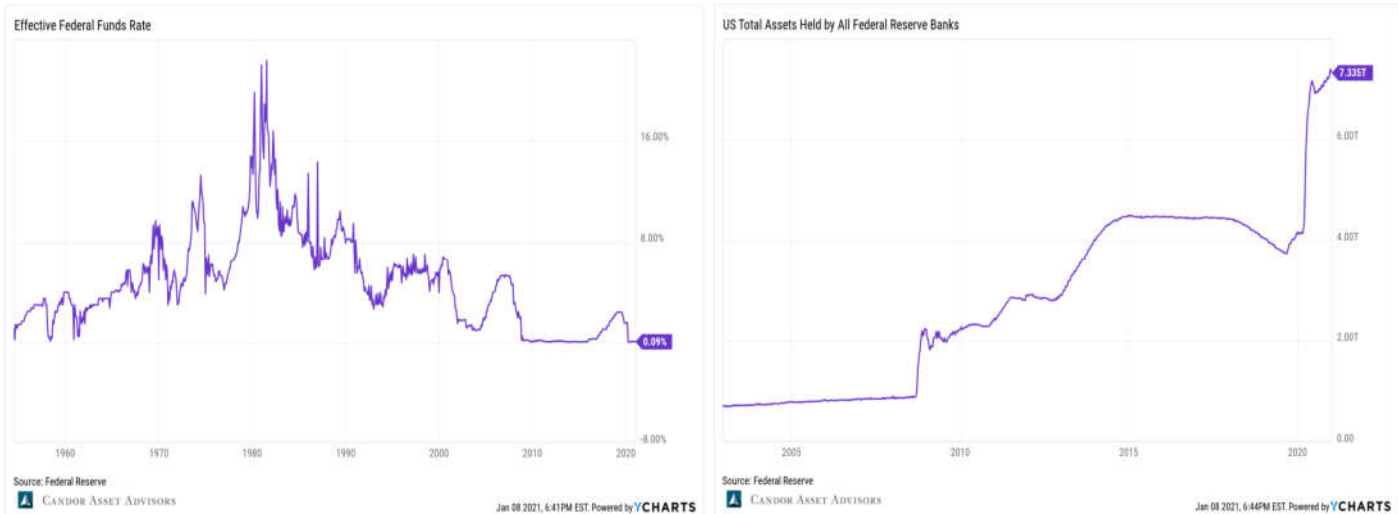
¹⁸ (YCharts, 2021)

¹⁹ (Yardeni, Global Index Briefing: MSCI Forward P/Es, 2021)

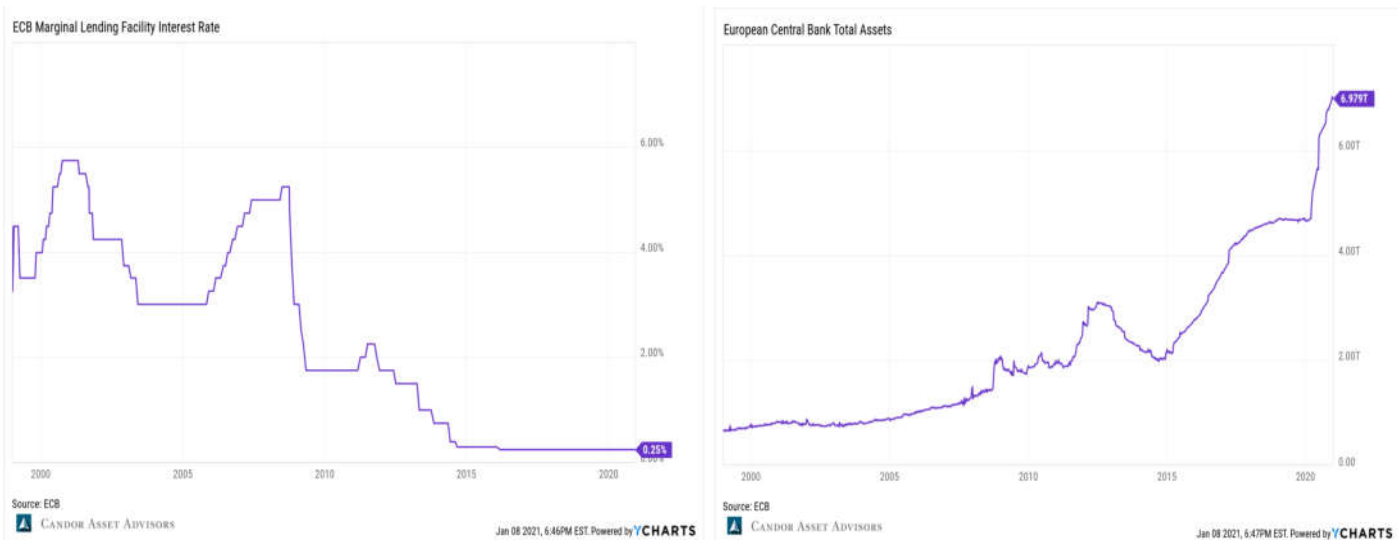
²⁰ (J.P. Morgan Asset Management)



The US Federal Reserve became more cautious about the economy starting in late 2018. In response the Federal Reserve cut the fed funds rate to stimulate economic activity. Today the fed funds rate remains near record lows²¹. The latest Federal Open Market Committee (FOMC) projections call for the fed funds rate to be 0.1% in 2021, 0.1-0.6% in 2022, 0.1-1.1% in 2023 and 2-3% over the long run²². Consistent with adopting less restrictive monetary policy, the Federal Reserve has increasingly used the balance sheet to support economic growth²³.



Looking outside the US, the European Central Bank (ECB) has also engaged in monetary stimulus in recent years. Like the US Federal Reserve, the ECB has lowered rate expectations and expanded the balance sheet²⁴.



It is worth noting that Federal Reserve and the ECB short-term interest rates are at such low levels today that further rate cuts should prove less useful in stimulating economic demand.

²¹ (YCharts, 2021)

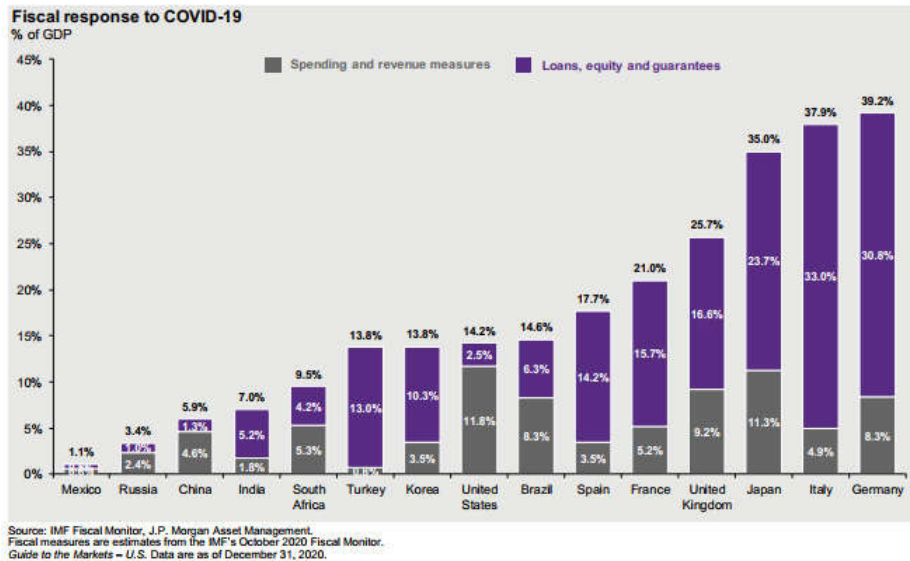
²² (Federal Reserve, 2020)

²³ (YCharts, 2021)

²⁴ (YCharts, 2021)

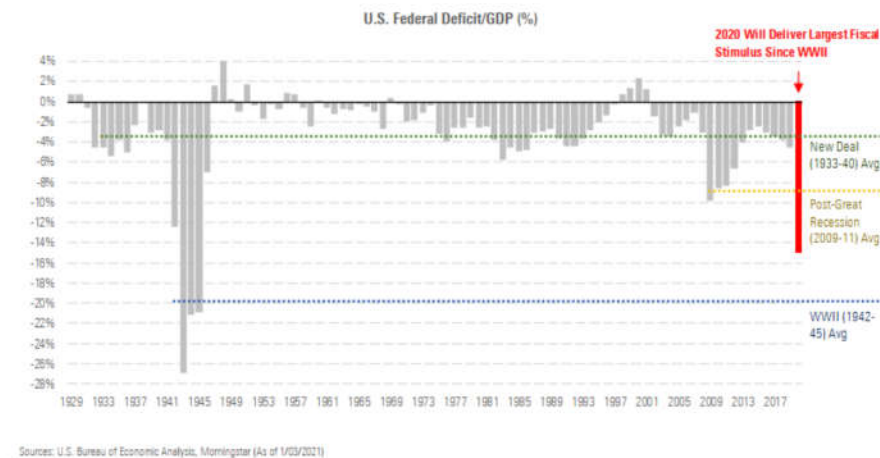


Governments throughout the world have engaged in fiscal stimulus to support economic activity. JP Morgan highlights Germany, Italy, Japan and the UK have been the most active²⁵. Investors have generally cheered this government support. In the interim, government fiscal policy will have to play a greater role in supporting the economic recovery.



Of note, the US fiscal stimulus has been significant and represents the largest in % terms since World War II²⁶.

2020 Delivered Largest U.S. Fiscal Stimulus Since WWII



The recent fiscal stimulus will accelerate the US' growing debt issue. According to the Congressional Budget Office, the US' debt to GDP ratio is expected to grow by 9% to 107% by 2023. The 107% ratio will represent the largest percentage in US history. Observers argue greater debt service payments will eventually serve as an anchor on economic activity²⁷.

²⁵ (J.P. Morgan Asset Management)

²⁶ (Morningstar, 2021)

²⁷ (Congressional Budget Office United States, 2020)



Recessions, Stock Market Corrections, Bear Markets, and Recoveries

- A recession according to National Bureau of Economic Research (NBER), which is the official arbiter in characterizing business cycles, defines an economic recession as "a significant decline in economic activity spread across the economy, lasting more than a few months, normally visible in real GDP, real income, employment, industrial production, and wholesale-retail sales." In practice this means a recession can represent a slowdown in economic growth over a few quarters rather an actual decline in economic statistics. Business cycles since 1854 are noted below²⁸.

Business Cycle Reference Dates						Contraction	Expansion	Cycle	
Peak Month	Peak Year	Peak Quarter	Trough Month	Trough Year	Trough Quarter	Peak to Trough (Months)	Previous Trough to this Peak (Months)	Trough from Previous Trough (Months)	Peak from Previous Peak (Months)
-	-	-	December	1854	4	-	-	-	-
June	1857	2	December	1858	4	18	30	48	-
October	1860	3	June	1861	3	8	22	30	40
April	1865	1	December	1867	1	32	46	78	54
June	1869	2	December	1870	4	18	18	36	50
October	1873	3	March	1879	1	65	34	99	52
March	1882	1	May	1885	2	38	36	74	101
March	1887	2	April	1888	1	13	22	35	60
July	1890	3	May	1891	2	10	27	37	40
January	1893	1	June	1894	2	17	20	37	30
December	1895	4	June	1897	2	18	18	36	35
June	1899	3	December	1900	4	18	24	42	42
September	1902	4	August	1904	3	23	21	44	39
May	1907	2	June	1908	2	13	33	46	56
January	1910	1	January	1912	4	24	19	43	32
January	1913	1	December	1914	4	23	12	35	36
August	1918	3	March	1919	1	7	44	51	67
January	1920	1	July	1921	3	18	10	28	17
May	1923	2	July	1924	3	14	22	36	40
October	1926	3	November	1927	4	13	27	40	41
August	1929	3	March	1933	1	43	21	64	34
May	1937	2	June	1938	2	13	50	63	93
February	1945	1	October	1945	4	8	80	88	93
November	1948	4	October	1949	4	11	37	48	45
July	1953	2	May	1954	2	10	45	55	56
August	1957	3	April	1958	2	8	39	47	49
April	1960	2	February	1961	1	10	24	34	32
December	1969	4	November	1970	4	11	106	117	116
November	1973	4	March	1975	1	16	36	52	47
January	1980	1	July	1980	3	6	58	64	74
July	1981	3	November	1982	4	16	12	28	18
July	1990	3	March	1991	1	8	92	100	108
March	2001	1	November	2001	4	8	120	128	128
December	2007	4	June	2009	2	18	73	91	8
February	2020	-	-	-	-	-	128	-	146
Averages									
All Periods						# of Cycles			
1854-1919						34	2.6	17.5	41.4
1920-1945						17	2.6	21.6	26.6
1946-Present						6	2.8	18.2	35.0
						11	2.5	11.1	64.2
								56.2	56.9
								48.2	48.9
								53.2	53.0
								69.5	68.9

- NBER announced in June 2020 that the US entered a recession starting in February 2020²⁹.
- From the table above³⁰:
 - The average recession since 1854 is 18 months and since 1946 is 11 months.
 - The longest recession since 1854 is 65 months from 1873 through 1879.
 - The average economic expansion is 56 months since 1854 and 70 months since World War II.
 - The June 2009 through February 2020 economic expansion was the longest since 1854.

²⁸ (The National Bureau of Economic Research, 2021)

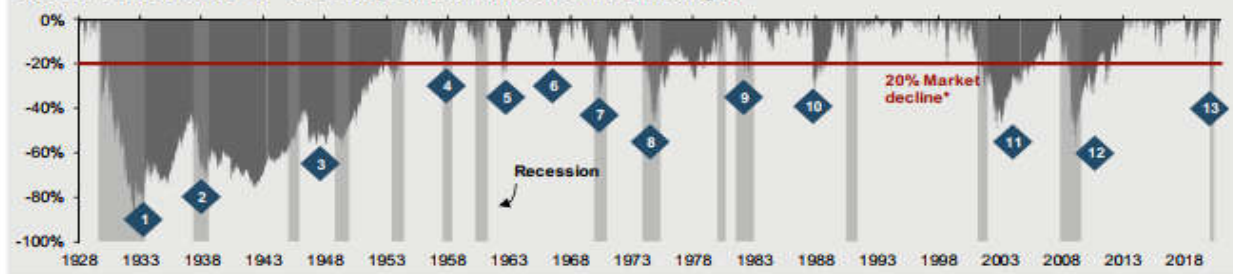
²⁹ (the National Bureau of Economic Research, 2021)

³⁰ (the National Bureau of Economic Research, 2021)



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



Characteristics of bull and bear markets

Market correction	Bear Market			Recession	Macro environment			Bull markets		
	Market peak	Bear return*	Duration (months)*		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 1929	62%	37
2 1937 Fed Tightening - Premature policy tightening	Mar 1937	-60%	61	◆				Mar 1935	129%	23
3 Post WWII Crash - Post-war demobilization, recession fears	May 1945	-30%	36	◆		◆	◆	Apr 1942	58%	49
4 Eisenhower Recession - Worldwide recession	Aug 1956	-22%	11	◆		◆	◆	Jun 1949	267%	85
5 Flash Crash of 1962 - Flash crash, Cuban Missile Crisis	Dec 1961	-28%	8				◆	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	◆	◆			Mar 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	Mar 2000	-49%	30	◆				Oct 1990	47%	16
12 Global Financial Crisis - Leverage/housing, Lehman collapse	Oct 2007	-57%	17	◆	◆	◆		Oct 2002	10%	60
13 Global Slowdown - COVID-19, oil price war	Feb 2020	-34%	1	◆				Mar 2009	405%	11
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.

Guide to the Markets - U.S. Data are as of December 31, 2020.

J.P.Morgan
Asset Management

- Stock market corrections are defined as a 10-20% drop in stock prices³¹. Corrections usually occur every one to three years³².
- Bear markets are defined as a drop of 20% or more in stock prices³³.
- In late 2018 the S&P dropped 19.8%³⁴. The decline fell just short of being called a bear market and represented a correction.
- From the chart above³⁵:
 - 75% of bear markets have occurred around recessions.
 - Since 1929, the average bear market decline is 42% with the maximum bear market decline registering 86% in 1929.
 - Most bear markets last less than three years, and the average bear market lasts 22 months.
 - The recent March 2009 - February 2020 bull market was the longest ever, and the S&P grew 401%.
 - The February 2020 bear market lasted only one month when the S&P 500 fell 34%.
 - The previous bear market occurred in 2007 and lasted 17 months. The S&P fell 57% over the period.
 - The 41% rally from March 23, 2020 through June 24, 2020 was the fastest in history³⁶.

³¹ (Investopedia, n.d.)

³² (YCharts, 2021)

³³ (Investopedia, n.d.)

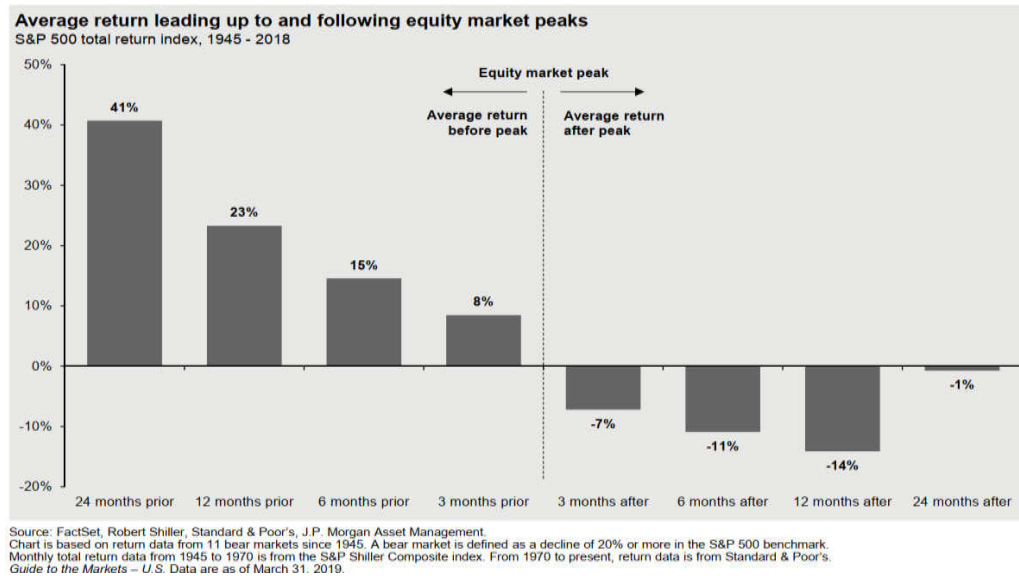
³⁴ (YCharts, 2021)

³⁵ (J.P. Morgan Asset Management)

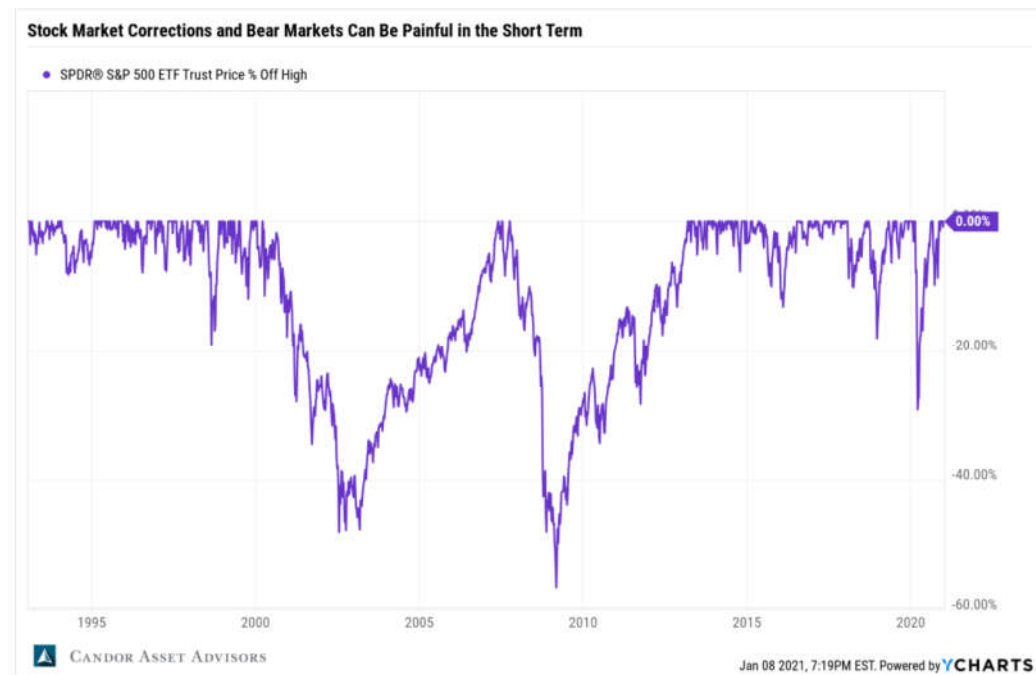
³⁶ (Khan, 2020)



- Since 1945 equity returns two years after a market peak have been roughly flat³⁷.



- Stock market declines can be painful in the short run. We endured this in the first quarter of 2020³⁸.

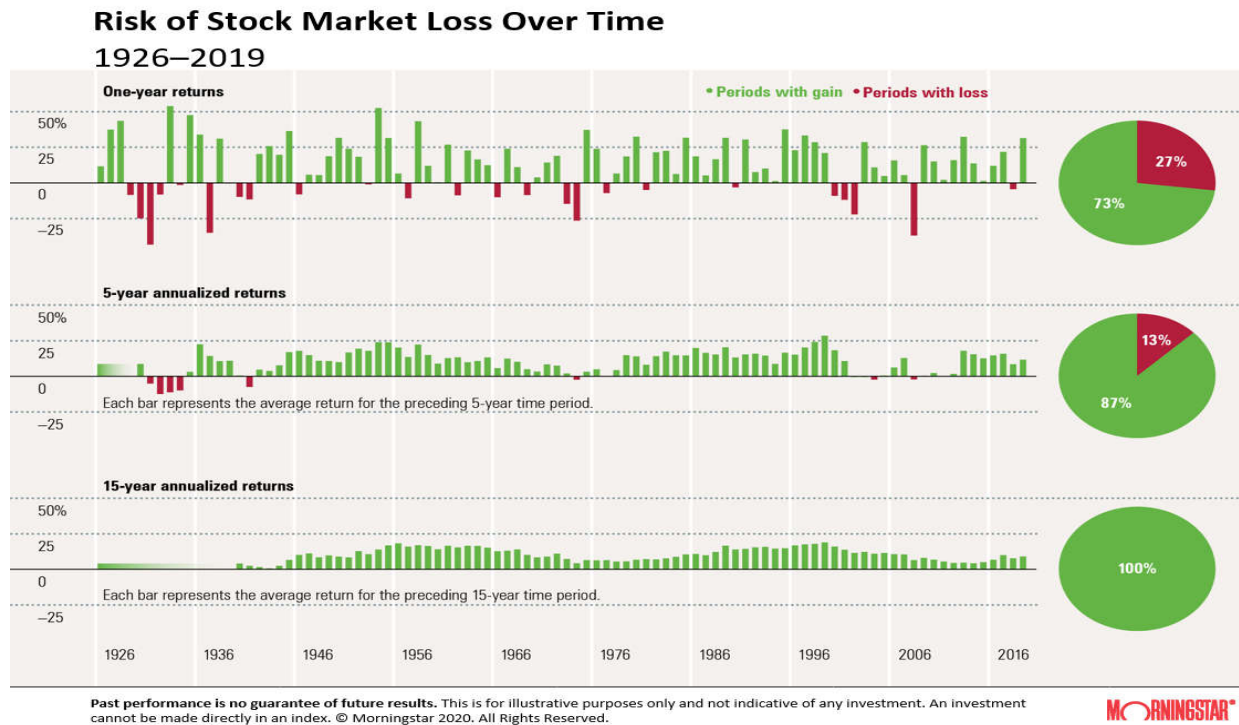


³⁷ (J.P. Morgan Asset Management)

³⁸ (YCharts, 2021)



It is important to have a long-term horizon when you invest in stocks. The table below highlights the risk of negative returns falls as your time horizon grows. The Ibbotson large cap index is referenced in the chart below³⁹.



History suggests most stock market timing strategies have failed, so we should not panic during market declines^{40 41}.

US stock return studies since the mid 1950s suggest the same thing. Remaining fully invested generated significantly higher returns over the long run.

1954-1994 Return Study

- S&P earned a 11.4% annual return
- If you were out of the market during the best performing days
 - 2% of the time you earned a 8.3% annual return
 - 4% of the time you earned a 6.1% annual return
 - 8% of the time you earned a 2.7% annual return

1998-2017 Return Study

- S&P earned a 7.2% annual return
- If you were out of the market during the
 - Top 10 days 3.5% annual return
 - Top 30 days -.9% annual return
 - Top 50 days -4.4% annual return
 - Top 100 days -11.2% annual return

Past performance is not a guarantee or predictor of future performance. Charts are for illustrative purposes only and do not represent an actual investment or performance of any specific investment. The S&P 500 is an unmanaged index of 500 stocks that is generally representative of the performance of larger US companies. An investor can not invest directly in an index. Unmanaged index returns do not reflect any fees, expenses or sales charges. Dividends are subject to reinvestment.

³⁹ (Morningstar, 2020)

⁴⁰ (Lynch, 2000)

⁴¹ (Legg Mason, n.d.)



Closing Thoughts

To sum up, COVID-19 continues to have a damaging impact to our economy. We entered a recession in February 2020, and no one knows for certain when we will come out of it. The stock market is forward looking however, and investors have already bid up shares in the anticipation of an economic recovery.

When investing, it's important to keep a long-term perspective as study after study suggests market timing is a fool's errand. The global stock market has persisted over time through wars (e.g., World War I, World War II, etc.), health events (e.g., 1918 Spanish flu, SARS, MERS), shocks (e.g., 9/11, Cuban Missile Crisis), bear markets (e.g., 1930s, 1973-74, 2001, 2008/9), and recessions (e.g., Great Depression, 2008/2009 financial crisis)⁴².

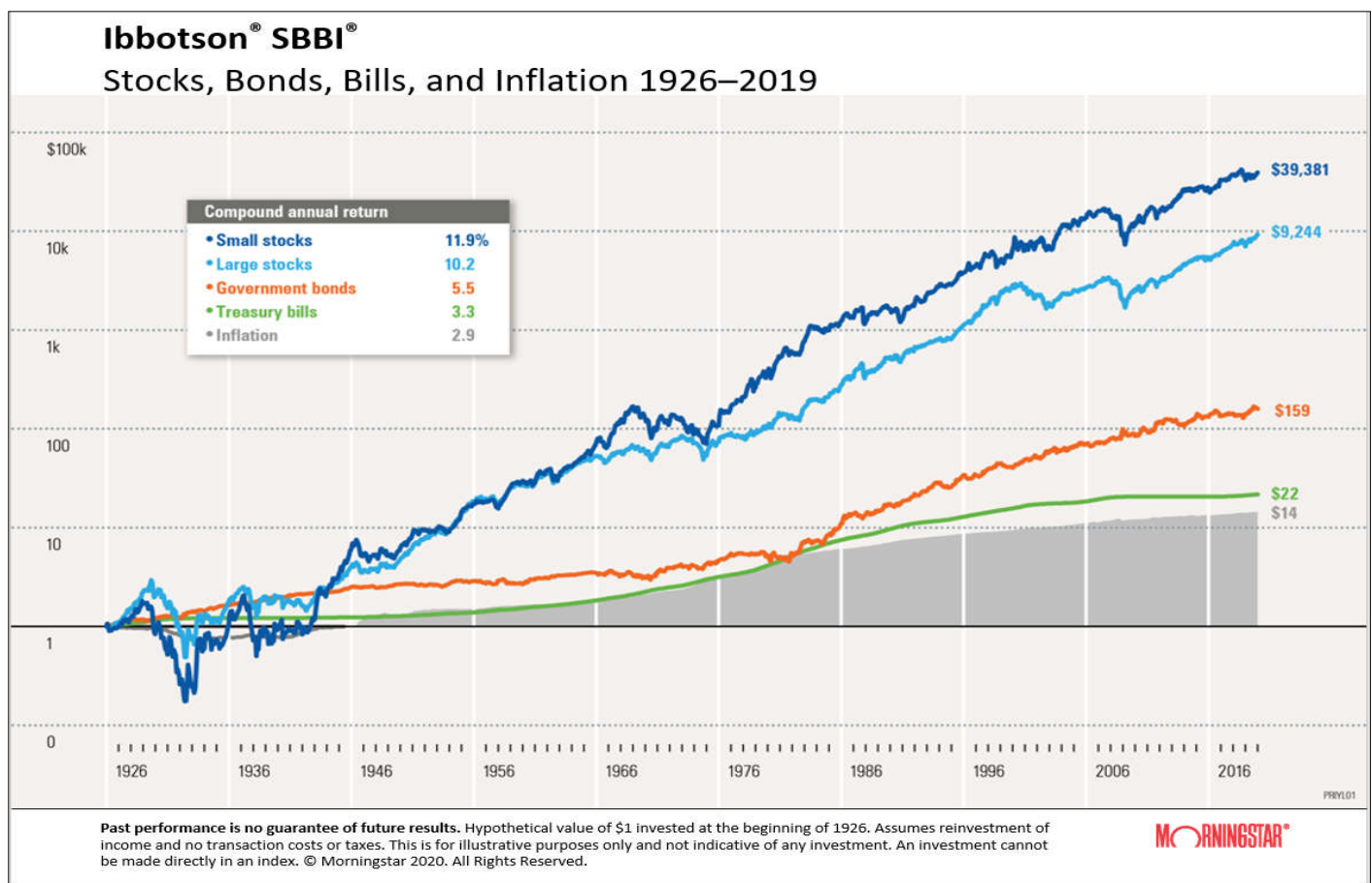


Chart: Small stocks in this example are represented by the Ibbotson Small Company Stock Index. Large stocks are represented by the Ibbotson Large Company Stock Index. Government bonds are represented by the 20-year U.S. government bond, Treasury bills by the 30-day U.S. Treasury bill, and inflation by the Consumer Price Index. Source: Ibbotson

⁴² (Morningstar, 2020)



Regarding your financial situation and proper asset allocation, please consider the following:

- Your liquidity needs – Make sure you set aside the proper amount of money to pay your bills, plan for near and intermediate term large purchases and address emergency events (e.g., job change/loss, medical, auto, home). An emergency fund should usually be allocated with a shorter-term time horizon.
- Your financial plan and investment time horizon – The time period usually corresponds with your life expectancy adjusted for estate planning considerations. Regarding life expectancy, studies suggest if you are healthy and have an average family healthy history you should probably plan on living until at least your mid 80s to mid 90s⁴³. This observation suggests if you are:
 - Age 30-40 your financial plan time horizon is likely 45+ years
 - Age 40-50 your financial plan time horizon is likely 35+ years
 - Age 50-60 your financial plan time horizon is likely 25+ years
 - Age 60-70 your financial plan time horizon is likely 15+ years
 - Age 70-80 your financial plan time horizon is likely 5-15+ years
- Your risk capacity – How much you should allocate to stocks and fixed income usually reflects the goals of maximizing your wealth, providing for loved ones or charities and/or improving the probability that you don't run out of money. Adding a larger percentage of fixed income to your portfolio as your investment time horizon shortens generally makes sense. Diversification also helps.
- Your risk tolerance – Reflect on how you have reacted to previous market declines. Be proactive and anticipate how you would react in the future if your portfolio fell by 10-50%. When would you lose too much sleep at night and begin making bad investment decisions?

After reviewing these factors, please let us know if you would like to revisit your asset allocation alternatives.

As always please reach out to us if you have questions or comments.

Sincerely,

William E. Hawes, CFA, CFP®
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Candor Asset Advisors

⁴³ (Social Security Administration, n.d.)



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