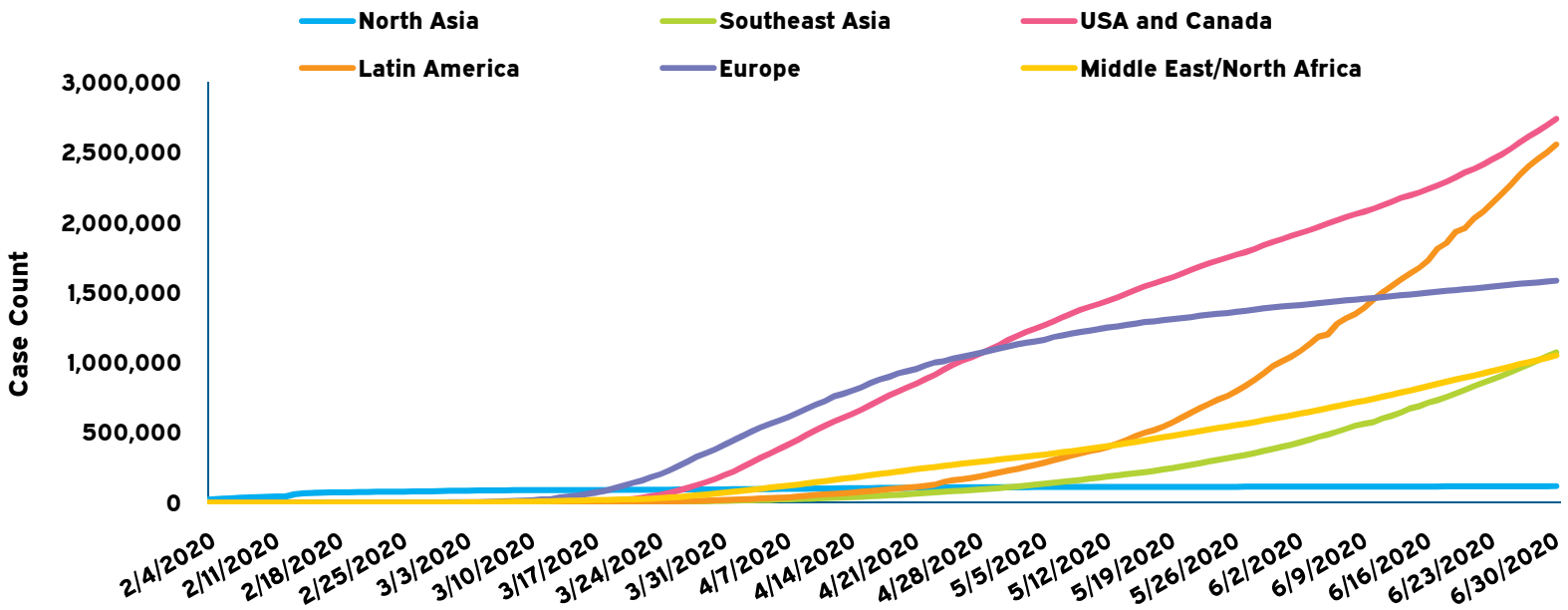
MEKETA
INVESTMENT GROUP

Economic and Market Update

Data as of June 30, 2020

Case Count by Select Region[1,2]

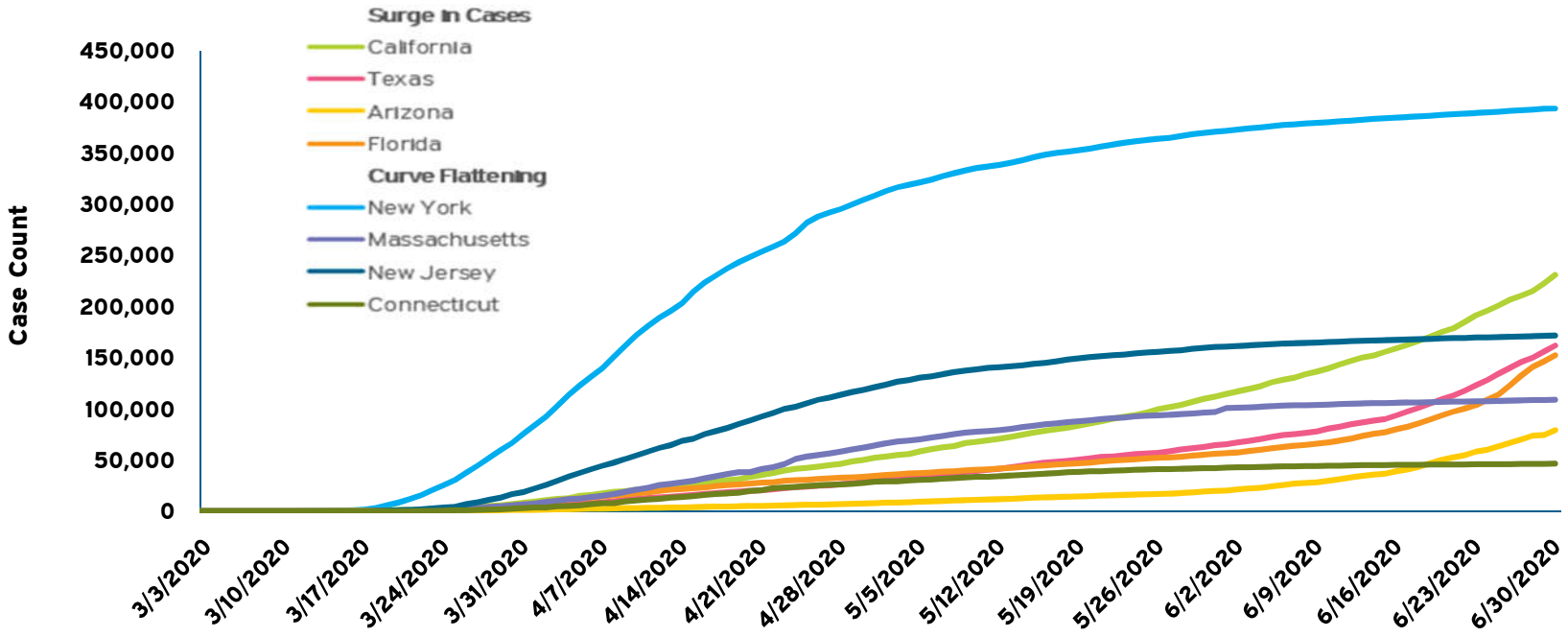


- Cases of COVID-19 continue to grow globally with now over 11.5 million reported cases across 188 countries.
- The US remains the epicenter with numbers in Latin America surging, driven by Brazil, which now has the second highest case count.

[1] Source: Bloomberg. Data is as of June 30, 2020.

[2] North Asia: China, Hong Kong, Japan, South Korea, and Taiwan. Southeast Asia: Singapore, India, Indonesia, Malaysia, Pakistan, Philippines, Thailand, Bangladesh, Sri Lanka, and Vietnam. Europe: Austria, Belarus, Bulgaria, Croatia, Czech Republic, Denmark, France, Germany, Hungary, Italy, Netherlands, Norway, Poland, Romania, Spain, Sweden, United Kingdom, Switzerland, and Ukraine. Latin America: Chile, Brazil, Mexico, Argentina, Colombia, Peru, Venezuela, Ecuador, Panama, Paraguay, Costa Rica, Bolivia, Uruguay, El Salvador, Honduras, Cuba, Dominican Republic, Haiti, and Nicaragua. Middle East/North Africa: Algeria, Bahrain, Egypt, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Morocco, Oman, Qatar, Saudi Arabia, Syria, Turkey, Tunisia, United Arab Emirates, and Yemen.

COVID-19 Cases by State[1]



- As the US economy slowly reopens, there has been a spike in cases in certain states that is creating stress on their healthcare systems, leading to officials slowing, or reversing, reopening plans.
- Some of the states that were hardest hit in the early stages continue to make progress on containing it.
- Looking forward, a continued trend of rising cases could significantly weigh on economic growth.

[1] Source: Bloomberg. Data is as of June 30, 2020.

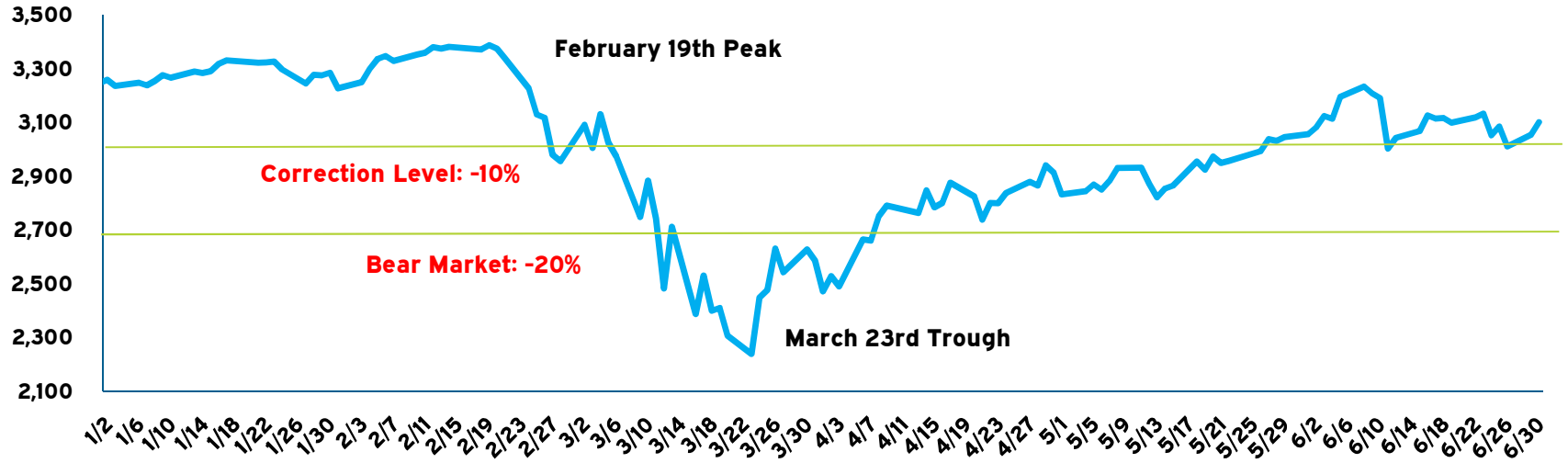
Market Returns[1]

Indices	Q2	YTD	1 Year	3 Year	5 Year	10 Year
S&P 500	20.5%	-3.1%	7.5%	10.7%	10.7%	14.0%
MSCI EAFE	14.9%	-11.3%	-5.1%	0.8%	2.1%	5.7%
MSCI Emerging Markets	18.1%	-9.8%	-3.4%	1.9%	2.9%	3.3%
MSCI China	15.3%	3.5%	13.1%	8.6%	5.3%	6.4%
Bloomberg Barclays Aggregate	2.9%	6.1%	8.7%	5.3%	4.3%	3.8%
Bloomberg Barclays TIPS	4.2%	6.0%	8.3%	5.0%	3.7%	3.5%
Bloomberg Barclays High Yield	10.2%	-3.8%	0.0%	3.3%	4.8%	6.7%
10-year US Treasury	0.7%	12.7%	14.2%	6.6%	4.8%	4.7%
30-year US Treasury	-0.7%	24.9%	29.8%	12.4%	9.7%	8.5%

- Global risk assets have recovered meaningfully from their lows, largely driven by record fiscal and monetary policy stimulus; the S&P 500 recovered by over 39% from the mid-March lows.
- Risk assets have reacted positively to the gradual re-opening of the global economy, some economic data beating expectations, and the potential for a vaccine being developed sooner than initially expected.
- Despite the recovery in risk assets, yields on safe-haven assets like US Treasuries remain at record lows due to expectations for extremely accommodative monetary policy for the foreseeable future.

[1] Source: InvestorForce and Bloomberg. Data is as of June 30, 2020.

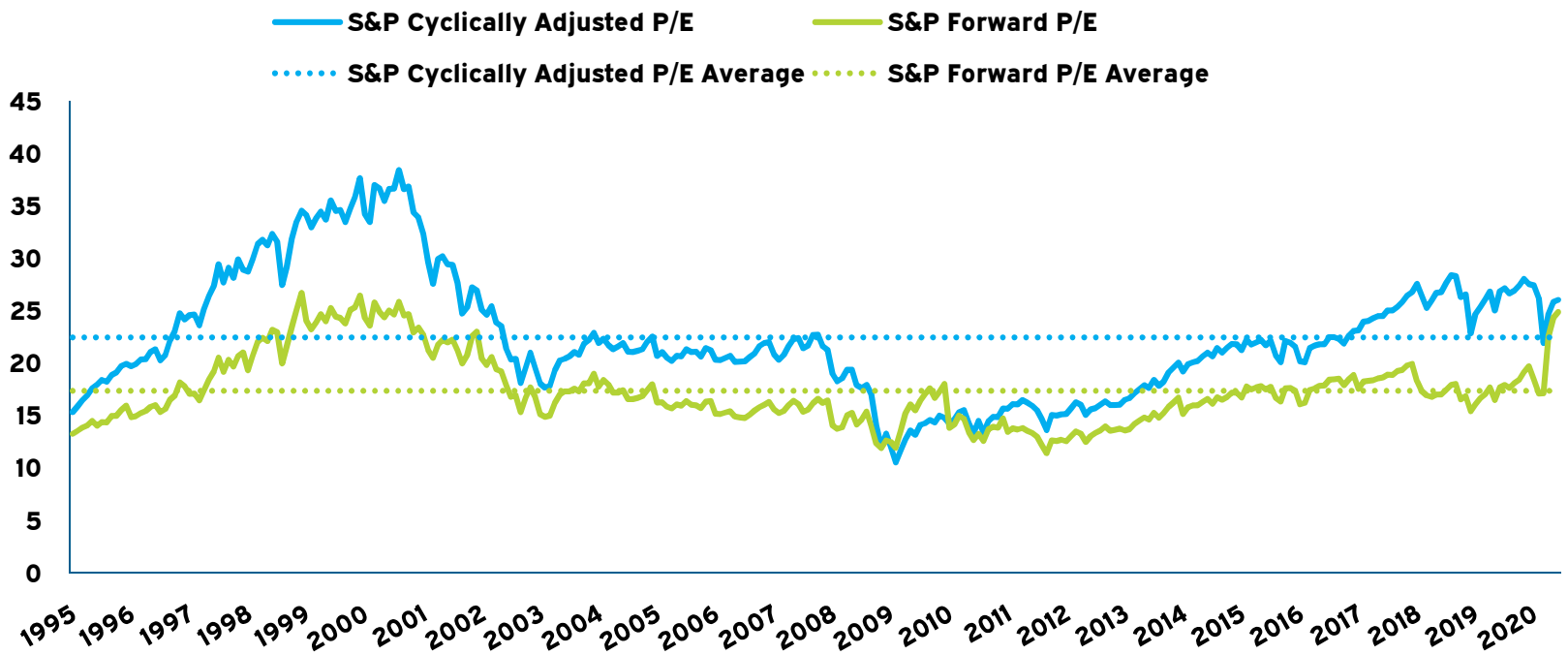
S&P 500 Continues to Recover[1]



- Given the anticipated economic carnage surrounding the pandemic, US stocks declined from a February peak into bear market (-20%) territory at the fastest pace in history.
- From the February 19 peak, the S&P 500 plunged 34% in just 24 trading days.
- The index rebounded from its lows, and is only down around 3% year-to-date through the end of June, primarily due to the unprecedented monetary and fiscal stimulus announced in the US, as well as improvements in virus data, and the economy slowly reopening.
- It is unclear whether the US equity market's recovery is temporary, particularly given the recent surge in cases.

[1] Source: Bloomberg. Data is as of June 30, 2020.

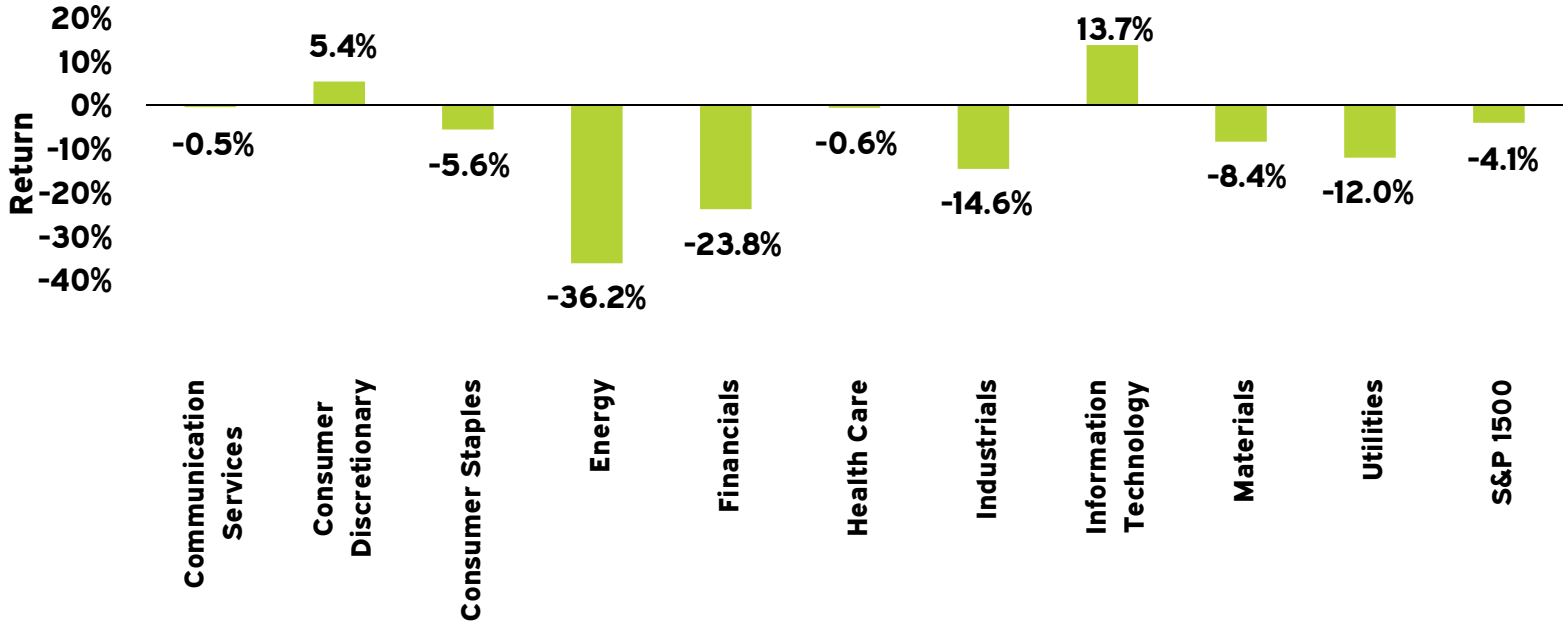
S&P Equity Valuations[1]



- Valuations based on both forward and backward looking earnings for the US stock market remain well above long-term averages, driven by the recent run.
- Many are looking to improvements in earnings to support market levels as the US economy continues to reopen.
- The key risk remains that a spike in COVID-19 cases could slow, or reverse, the reopening plans.

[1] Source: Bloomberg. Data is as of June 30, 2020.

2020 YTD Sector Returns[1]

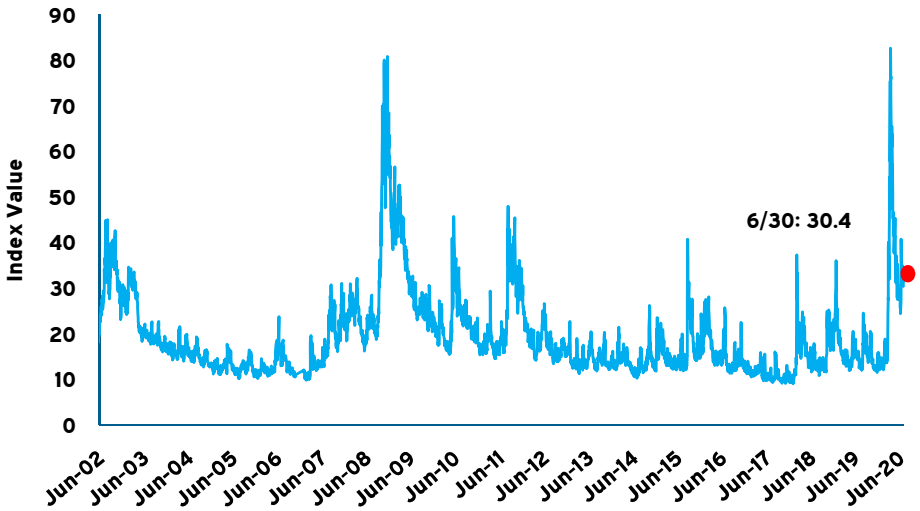


- Information technology is the best performing sector, with a narrow group of companies like Amazon and Netflix largely driving market gains. The outperformance has been due to consumers moving to online purchases and entertainment.
- The consumer discretionary sector also experienced gains as the economy slowly reopens, people return to work, and as stimulus checks are spent.
- The energy sector has seen some improvements given supply cuts and economies starting to reopen, but it remains the sector with the greatest decline, triggered by the fall in oil prices.

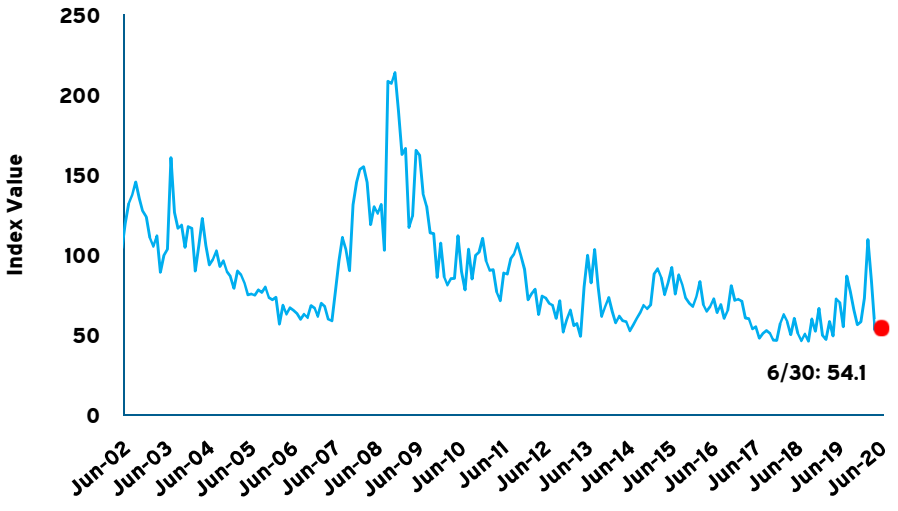
[1] Source: Bloomberg. Data is as of June 30, 2020.

Volatility has Declined

VIX Index[1]



MOVE Index[2]



- Given the recent fiscal and monetary support and corresponding improvement in investor risk sentiment, expectations of short-term equity volatility, as measured by the VIX index, continues to decline from record levels but remains elevated.
- At the recent height, the VIX reached 82.7, surpassing the pinnacle of volatility during the GFC, showing the magnitude of the crisis, and of investor fear.
- Expectations of volatility within fixed income, represented by the MOVE index, remain near historic lows given the broad monetary support including interest rate cuts, funding programs, quantiattive easing, and forward guidance.

[1] Source: Chicago Board of Exchange. Data is as of June 30, 2020.

[2] Source: Bloomberg. Data is as of June 30, 2020.

Global Financial Crisis Comparison

	2007-2009 Global Financial Crisis	COVID-19 Crisis
Primary Causes	Excess Risk Taking Due to: • Deregulation, un-constrained securitization, shadow banking system, fraud	Pandemic/Natural Disaster: • Large scale global restrictions on businesses and individuals leading to immediate and significant deterioration in economic fundamentals
	2007-2009 Global Financial Crisis	**COVID-19 Crisis**
Fiscal Measures	• American Recovery Reinvestment Act of 2009: $787 billion • Economic Stimulus Act of 2008: $152 billion	• PPP Act: $659 billion • CARES Act of 2020: $2.3 trillion • Families First Coronavirus Response Act: $150 billion • Coronavirus Preparedness & Response Supplemental Appropriations Act 2020: $8.3 billion • National Emergency: $50 billion

	2007-2009 Global Financial Crisis	COVID-19 Crisis
Monetary Measures		
Lowering Fed Funds Rate	X	X
Quantitative Easing	X	X
Primary Dealer Repos	X	X
Central Bank Swap Lines	X	X
Commercial Paper Funding Facility	X	X
Primary Dealers Credit Facility	X	X
Money Market Lending Facility	X	X
Term Auction Facility	X	
TALF	X	X
TSLF	X	
FIMA Repo Facility		X
Primary & Secondary Corp. Debt		X
PPP Term Facility		X
Municipal Liquidity Facility		X
Main Street Loan Facility		X

Global Financial Crisis Comparison (continued)

- The US fiscal response to the COVID-19 Crisis has been materially larger than the response to the 2007-2009 Global Financial Crisis (GFC), and stimulus is acutely focused on areas of the economy showing the greatest need, including small and mid-sized companies. For example, the Paycheck Protection Program (PPP) helps small businesses keep employees working by offering forgivable loans to cover salaries.
- On the monetary side, markets targeted during both crises represent those most in need, but for the COVID-19 Crisis the policy response was dramatically faster, measured in weeks, not years, as in the GFC.
- Of the monetary stimulus measures, the corporate debt (Primary & Secondary Corporate Debt) programs and Main Street Loan Facility are new and garnered much attention from market participants.
- Through the end of June, Fed programs have experienced various degrees of usage. However, at this point, none has come close to reaching program limits. Still, the psychological value of knowing the programs are available, if necessary, likely supports market sentiment.

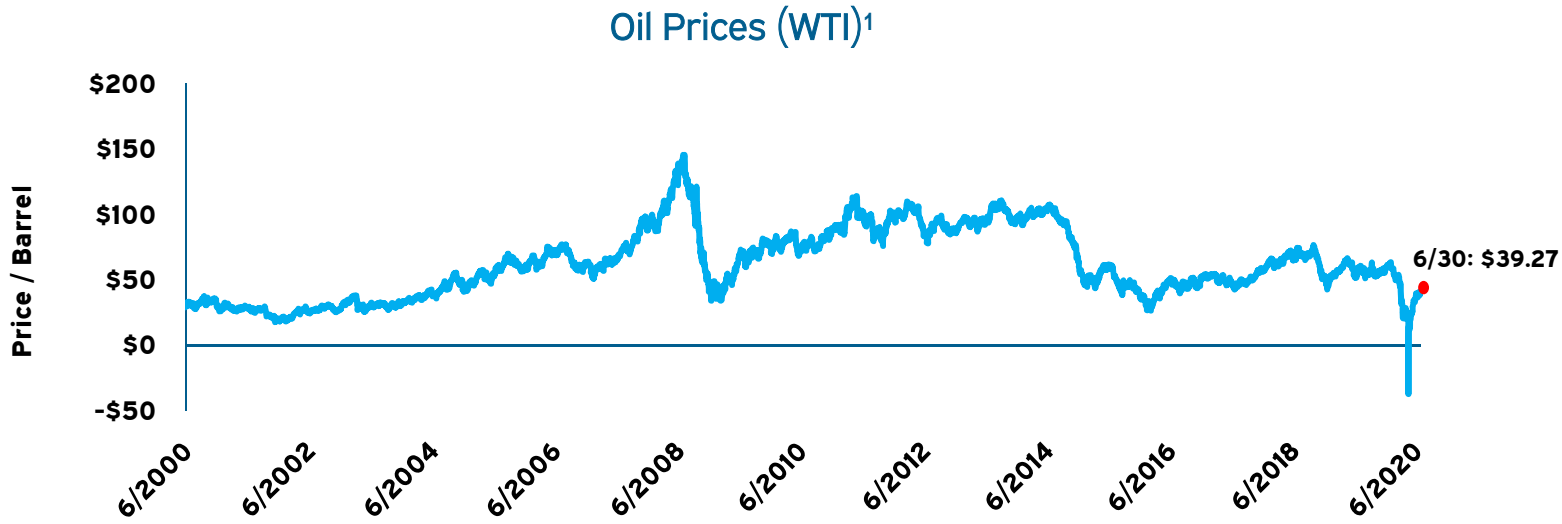
Historic $2T US Fiscal Stimulus

Destination	Amount ($ Billion)
Individuals	$560
Large Corporations	$500
Small Business	$377
State & Local Governments	$340
Public Health	$154
Student Loans	$44
Safety Net	$26

- Late in March, a historic $2 trillion fiscal package was approved in the US, representing close to 10% of GDP and including support across the economy.
- Individuals received cash payments of up to $1,200 per adult and $500 per child, and extended and higher weekly unemployment benefits (+$600/week).
- The package also includes a $500 billion lending program for distressed industries like airlines, and $377 billion in loans to small businesses (this program was recently extended).
- Other parts of the package include allocations to state and local governments, support for public health, student loan relief, and a safety net.
- With certain programs scheduled to expire, active discussions are going on now related to the next round of fiscal stimulus, with various extensions and expansions being considered.

Policy Responses

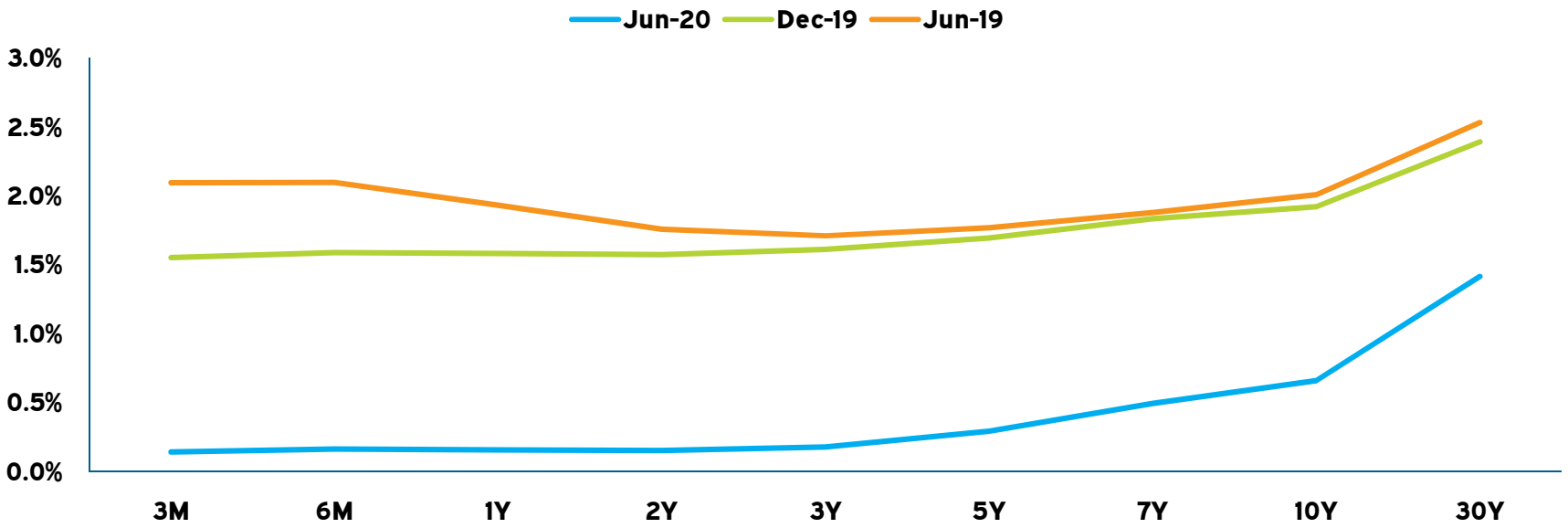
	Fiscal	Monetary
United States	$50 billion to states for virus related support, interest waived on student loans, flexibility on tax payments and filings, expanded COVID-19 testing, paid sick leave for hourly workers, $2 trillion package for individuals, businesses, and state/local governments. Additional $484 billion package to replenish small business loans, provide funding to hospitals, and increase testing.	Cut policy rates to zero, unlimited QE4, offering trillions in repo market funding, restarted CPFF, PDCF, MMMF programs to support lending and financing market, expanded US dollar swap lines with foreign central banks, announced IG corporate debt buying program with subsequent amendment for certain HY securities, Main Street Lending program, Muni liquidity facility, repo facility with foreign central banks, and easing of some financial regulations for lenders.
Euro Area	Germany: Launched 750 billion euro stimulus package. France: 45 billion euro for workers, guaranteed up to 300 billion euro in corporate borrowing. Italy: 25 billion euro emergency decree, suspending mortgage payments for impacted workers. Spain: 200 billion euro and 700 million euro loan and aid package, respectively.	Targeted longer-term refinancing operations aimed at small and medium sized businesses, under more favorable pricing, and announced the 750 billion euro Pandemic Emergency Purchase Program. and then expanded the purchases to 1.53 trillion and including lower-quality corporate debt
Japan	$1.1 trillion in small business loans, direct funding program to stop virus spread among nursing homes and those affected by school closures, and direct payments to individuals	Initially increased QE purchases (ETFs, corporate bonds, and CP) and then expanded to unlimited purchases and doubling of corporate debt and commercial paper, expanded collateral and liquidity requirements, and 0% interest loans to businesses hurt by virus
China	Tax cuts, low-interest business loans, extra payments to gov't benefit recipients.	Expanded repo facility, policy rate cuts, purchase of small business loans, and lowered reserve requirements.
Canada	$7.1 billion in loans to businesses to help with virus damage.	Cut policy rates, expanded bond-buying and repos, lowered bank reserve requirements.
UK (BOE)	Tax cut for retailers, small business cash grants, benefits for those infected with virus, expanded access to gov't benefits for self and un-employed.	Lowered policy rates and capital requirements for UK banks, restarts QE program and subsequently increased the purchase amounts.
Australia	$11.4 billion, subsidies for impacted industries like tourism, one-time payment to gov't benefit recipients.	Policy rate cut, started QE.



- Global oil markets rallied from April lows, including from the technically-induced negative levels that saw the May futures contract trade at nearly -$40 per barrel.
- In addition to improvements in sentiment as the global economy begins to reopen and some measures of economic fundamentals reporting better than expected numbers, OPEC+ recently agreed to extend supply cuts of 9.7 million barrels/day (~10% of global output) through July.
- Counterbalancing the OPEC+ production cut agreement, US oil producers (particularly shale output) are reportedly turning wells back on as the price of oil rises.

[1] Source: Bloomberg. Represents WTI first available futures contract. Data is as of June 30, 2020.

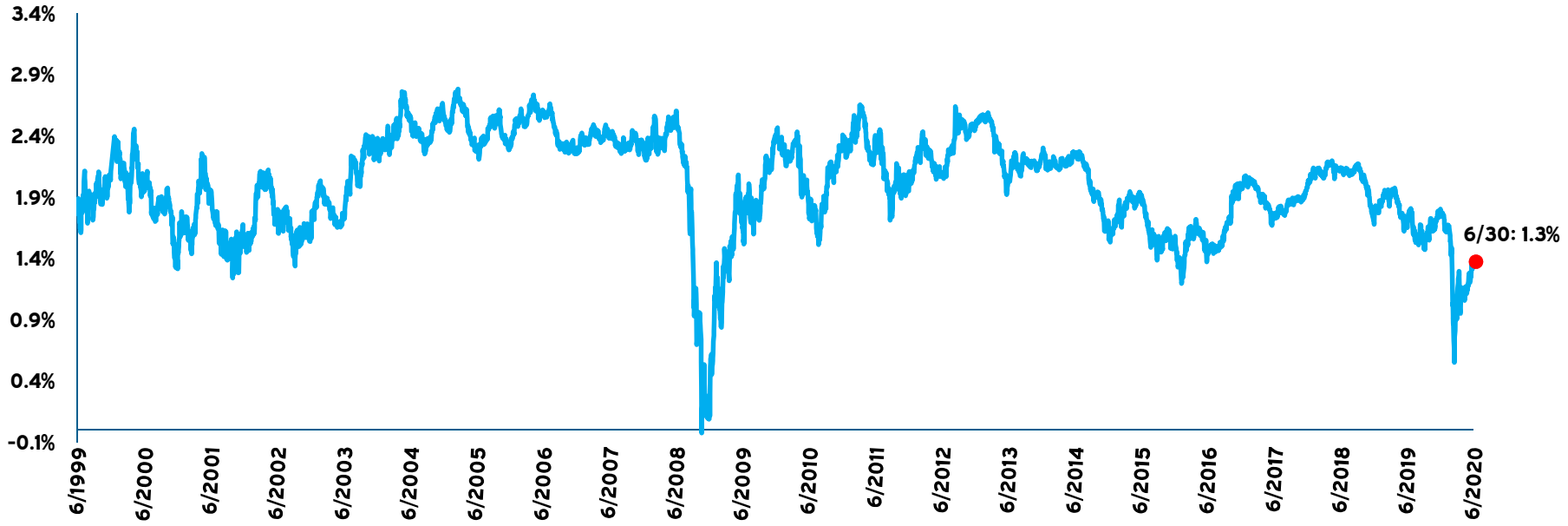
US Yield Curve Declines[1]



- The US Treasury yield curve has declined materially since 2019, largely due to central bank policy actions, safe-haven demand, and weak economic expectations.
- Yields out to the 5-year maturity point have been principally driven by cuts to monetary policy rates, the Federal Reserve's ongoing purchase program, and commitments by policy makers to keep policy rates accommodative for the foreseeable future.
- Longer-dated yields have also been heavily influenced by monetary policy actions, but have recently risen on modest increases in longer-term inflation expectations.

[1] Source: Bloomberg. Data is as of June 30, 2020.

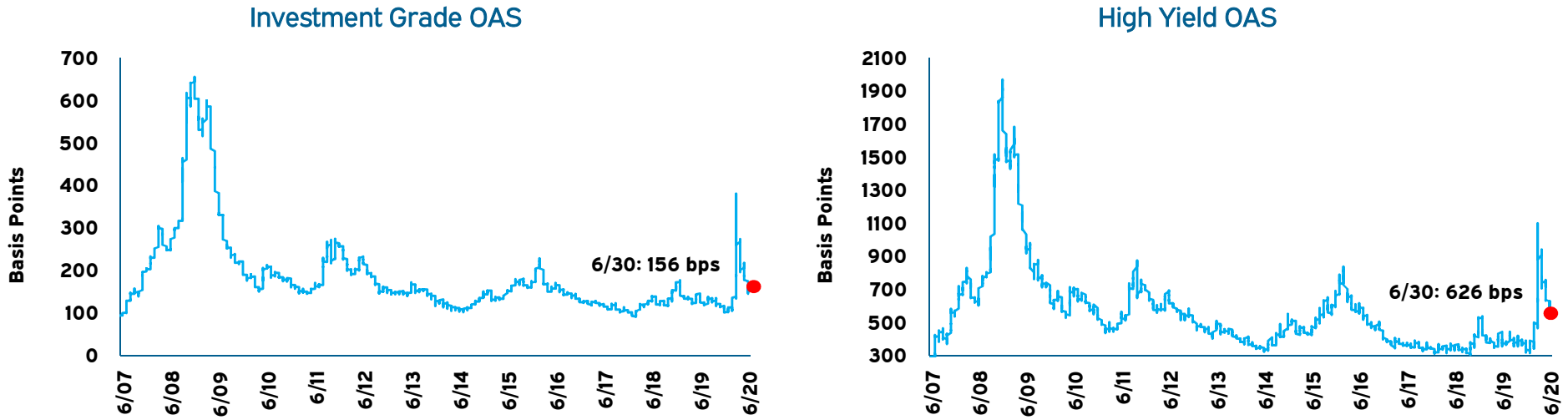
10-Year Breakeven Inflation[1]



- Inflation breakeven rates initially declined sharply, due to a combination of lower growth and inflation expectations, as well as liquidity dynamics in TIPS during the height of rate volatility.
- Liquidity eventually improved and breakeven rates increased, but given the uncertainty regarding economic growth and the inflationary effects of the unprecedented US fiscal and monetary responses, inflation expectations remain well below historical averages.

[1] Source: Bloomberg. Data is as of June 30, 2020.

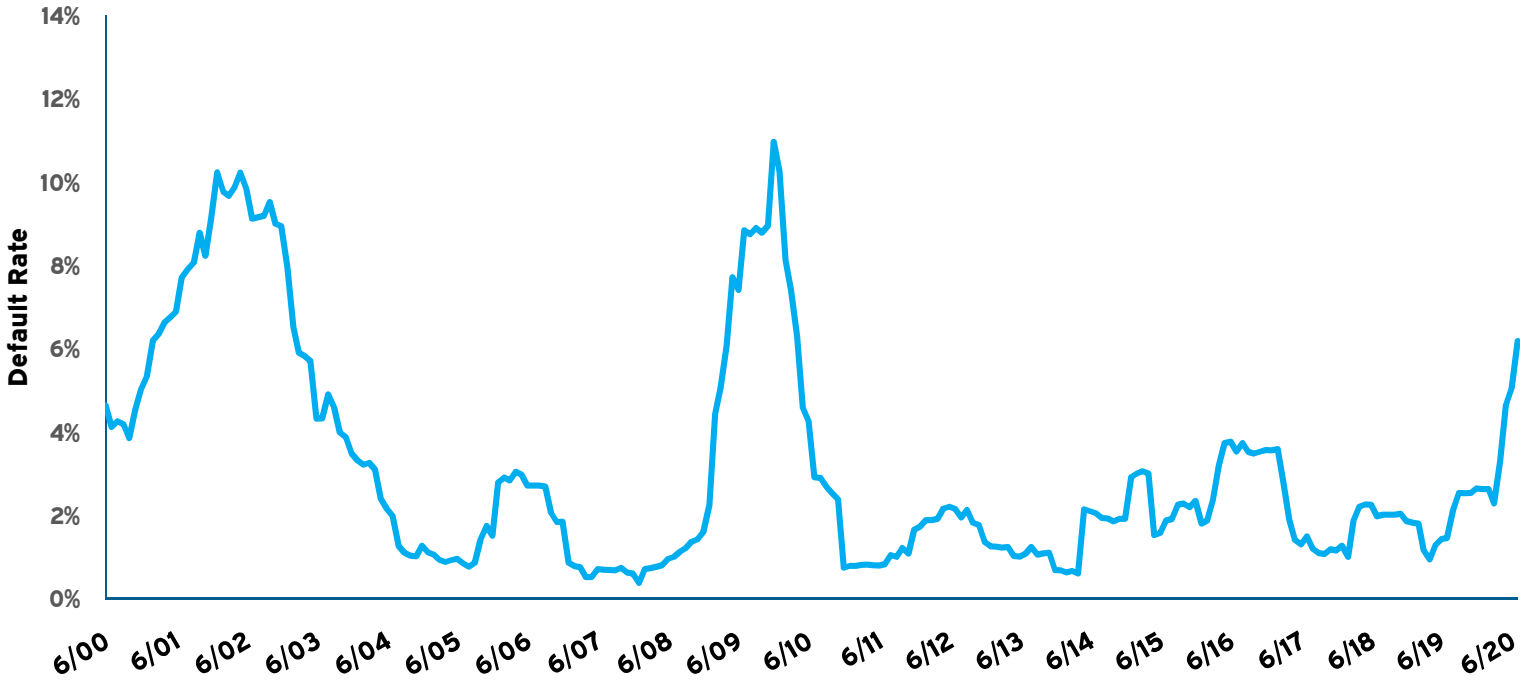
Credit Spreads (High Yield & Investment Grade)[1]



- Credit spreads (the spread above a comparable Treasury bond) for investment grade and high yield corporate debt expanded sharply as investors sought safety.
- Investment grade bonds held up better than high yield bonds. The Federal Reserve's corporate debt purchase program for investment grade and certain high yield securities that were recently downgraded from investment grade, was well received by investors, leading to a decline in spreads.
- Overall, corporate debt issuance has more than doubled since 2008, which magnifies the impact of deterioration in the corporate debt market. This is particularly true in the energy sector, which represents over 10% of the high yield bond market.

[1] Source: Federal Reserve Bank of St. Louis Economic Research. Data is as of June 30, 2020.

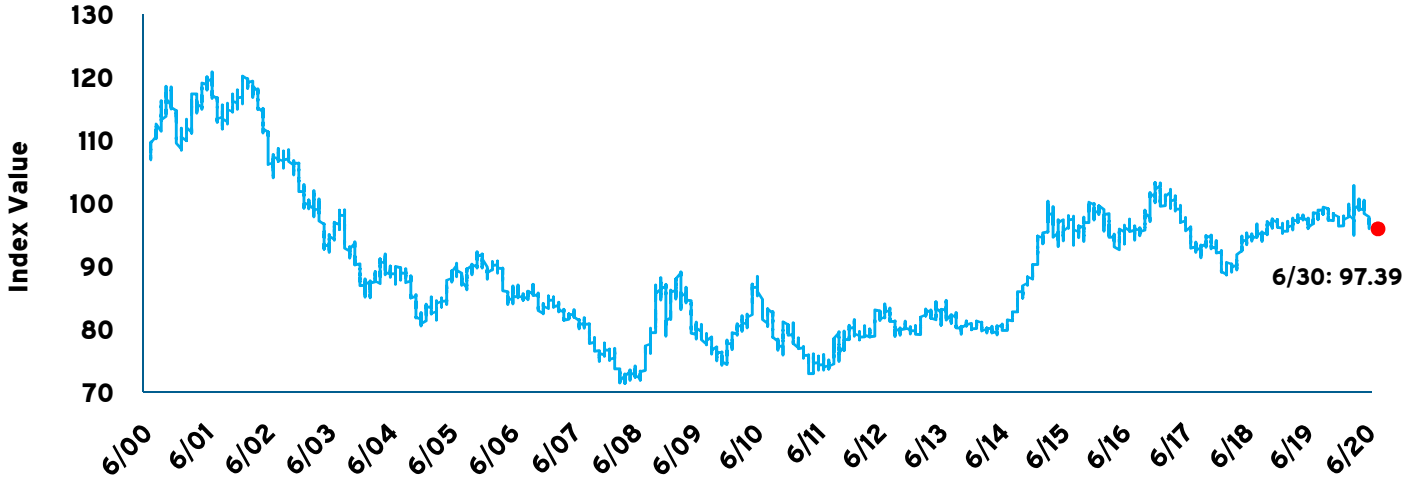
US High Yield Credit Defaults[1]



- Even though spreads have declined given the Federal Reserve's support, defaults, particularly in the high yield sector, increased dramatically.
- The energy sector has been hard hit given the decline in oil prices, with defaults reaching double-digit levels and expectations for them to increase.

[1] Source: J.P. Morgan; S&P LCD. Data is as of June 30, 2020.

US Dollar versus Broad Currencies[1]



- When financial markets began aggressively reacting to COVID-19 developments, the US dollar came under selling pressure as investors sought safe-haven exposure in currencies like the Japanese yen given its current account surplus and its status as the largest creditor globally.
- As the crisis grew into a pandemic, investors' preferences shifted to holding US dollars and highly liquid, short-term securities like US Treasury bills. This global demand for US dollars led to appreciation versus most major currencies.
- A relatively strong US dollar makes US goods more expensive for overseas consumers and causes commodity prices outside the US to rise, affecting foreign countries, and particularly emerging markets.
- To help ease global demand for US dollars, the Federal Reserve, working with a number of global central banks, re-established the US dollar swap program, providing some relief to other currencies. Usage of the program continues to decline as dollar funding demands have eased.

[1] Source: Bloomberg. Represents the DXY Index. Data is as of June 30, 2020.

Economic Impact

Supply Chain Disruptions:

- Factories closing, increased cost of stagnant inventory, and disrupted supply agreements.
- Reduced travel, tourism, and separation policies including closed borders: Significant impact on service-based economies.

Labor Force Impacts:

- Huge layoffs across service and manufacturing economies.
- Increased strains as workforce productivity declines from increased societal responsibilities (e.g., home schooling of children) and lower functionality working from home.
- Illnesses from the disease will also depress the labor force.

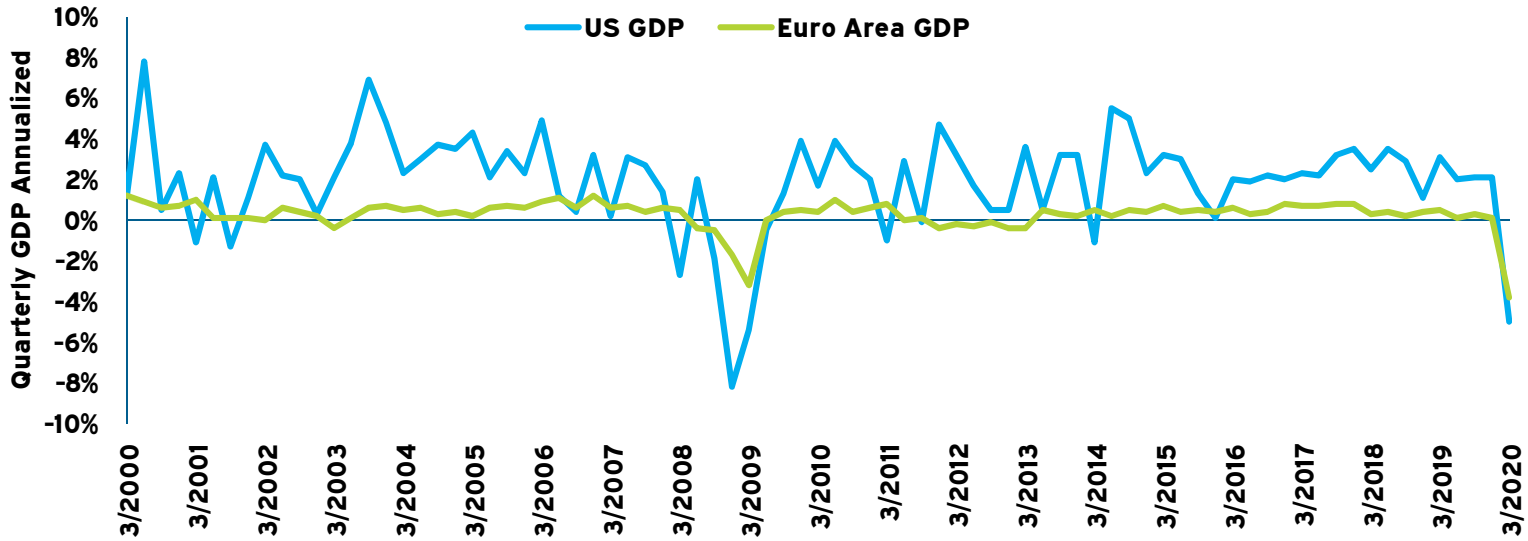
Declines in Business and Consumer Sentiment:

- Sentiment drives investment and consumption, which leads to increased recessionary pressures as sentiment slips.

Wealth Effect:

- As financial markets decline and wealth deteriorates, consumer spending will be impacted.

GDP Data Shows First Signs of Crisis[1]

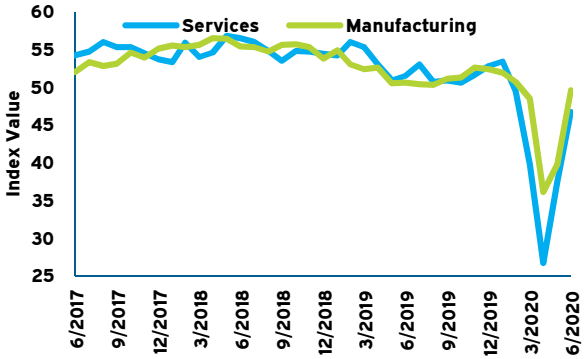


- The global economy faces major recessionary pressures this year, but optimism remains for improvements in 2021, as economies are expected to gradually reopen.
- In the US, the third estimate for first quarter GDP came in at -5.0%, with personal consumption declining the most since 1980. Eurozone GDP fell (-3.6%) with the major economies in France, Spain, and Italy experiencing historic declines.
- Bloomberg Economics estimates that second quarter US GDP could be as low as -5.6% (YoY).

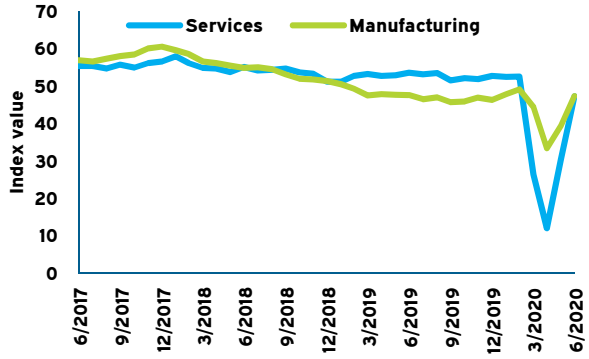
[1] Source: Bloomberg. Q1 2020 data represents third estimate of GDP for Euro Area and third estimate of GDP for United States.

Global PMIs

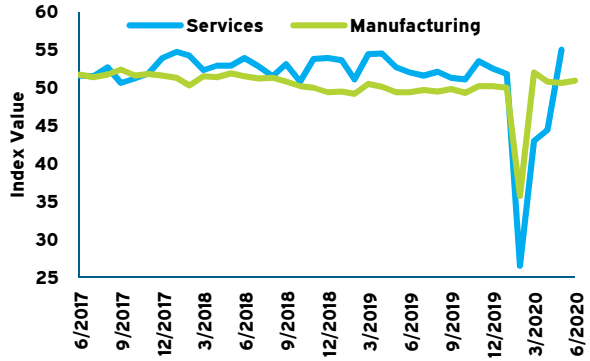
US PMI[1]



Eurozone PMI[2]



China PMI[3]



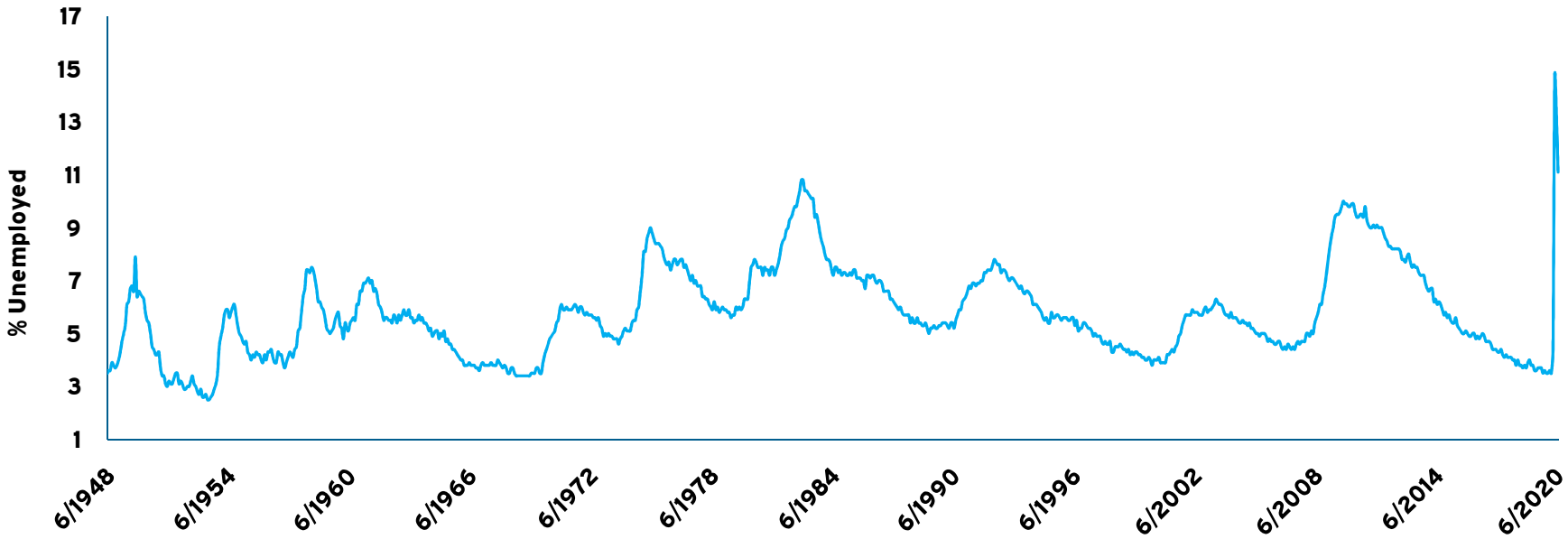
- Purchasing Managers Indices (PMI), based on surveys of private sector companies, collapsed across the world to record lows, as output, new orders, production, and employment have been materially impacted by closed economies. The service sector was particularly hard hit by the stay at home orders.
- Readings below 50 represent contractions across underlying components and act as a leading indicator of economic activity, including the future paths of GDP, employment, and industrial production.
- Recently, there have been improvements in data as economies reopen, contributing to the optimism in equity markets.

[1] Source: Bloomberg. US Markit Services and Manufacturing PMI. Data is as of June 2020.

[2] Source: Bloomberg. Eurozone Markit Services and Manufacturing PMI. Data is as of June 2020.

[3] Source: Bloomberg. Caixin Manufacturing PMI data is as of June 2020. Caixin Services PMI as of May 2020

US Unemployment Rate[1]

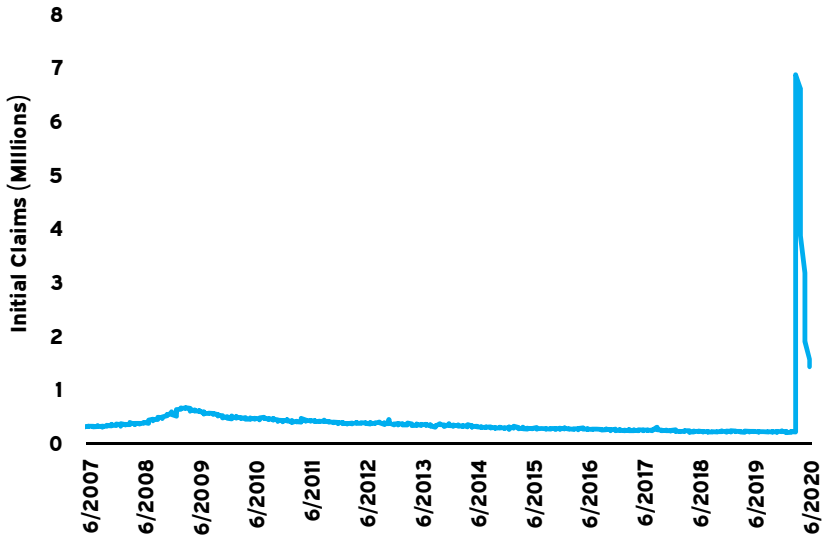


- In May, the unemployment rate continued its decline from the recent April 14.7% peak, falling to 11.1%.
- Despite the improvement, unemployment levels remain well above pre-virus readings and are likely higher than reported due to issues related to some workers being misclassified. According to the Bureau of Labor Statistics, absent the misclassification issue, the June unemployment rate would be higher by 1.0%.
- The recent increase in COVID-19 cases could lead to an increase in the unemployment rate going forward.

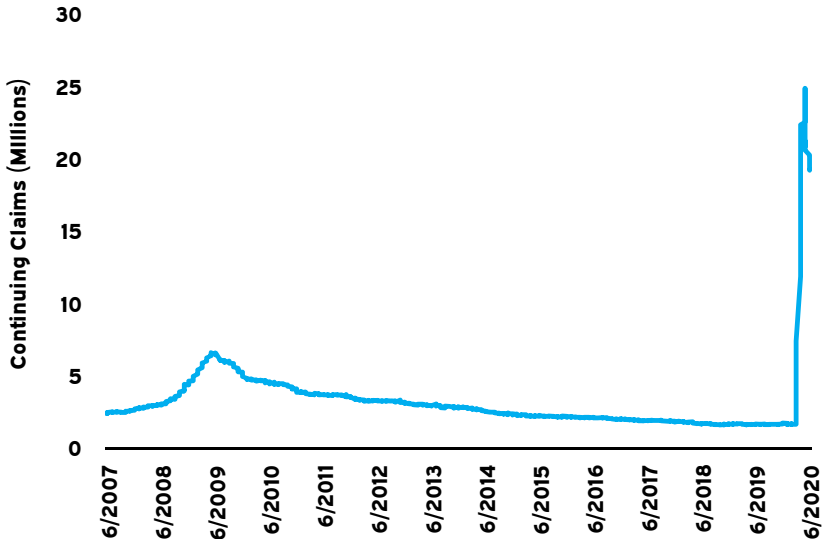
[1] Source: Bloomberg. Data is as of June 30, 2020.

US Jobless Claims

US Initial Jobless Claims[1]



Continuing Claims[2]



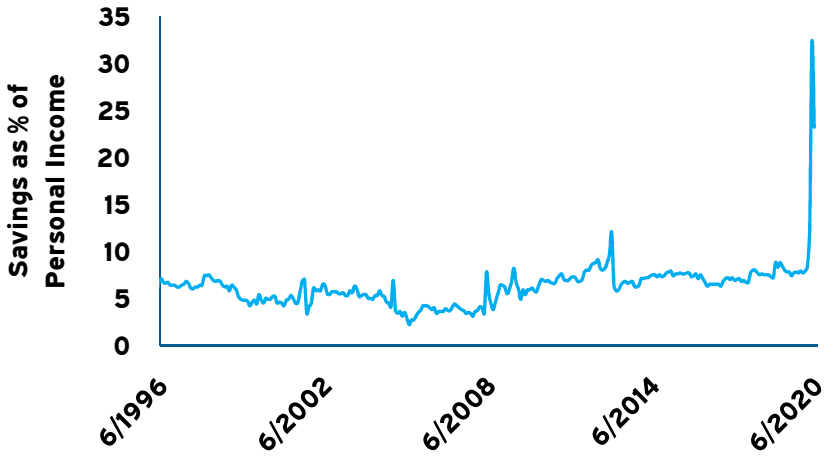
- Over the last 15 weeks, close to 49 million people filed for initial unemployment. This level far exceeds the 22 million jobs added since the GFC, highlighting the unprecedented impact of the virus.
- Despite the continued decline in initial jobless claims, the 1.4 million level of the last reading remains many multiples above the worst reading during the Global Financial Crisis.
- Continuing jobless claims (i.e., those currently receiving benefits) has also declined from record levels, but remains elevated.

[1] Source: Bloomberg. First reading of seasonally adjusted initial jobless claims. Data is as of June 26, 2020.

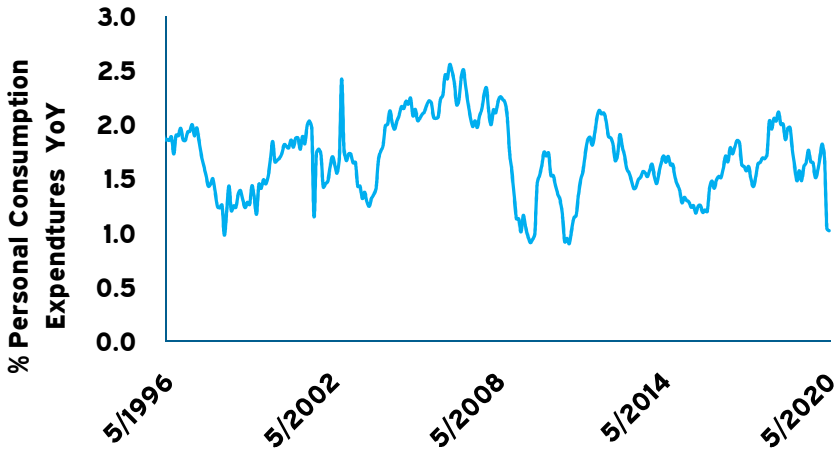
[2] Source: Bloomberg. US Continuing Jobless Claims SA. Data is as of June 19, 2020.

Savings and Spending

Savings Rate[1]



Consumer Spending[2]



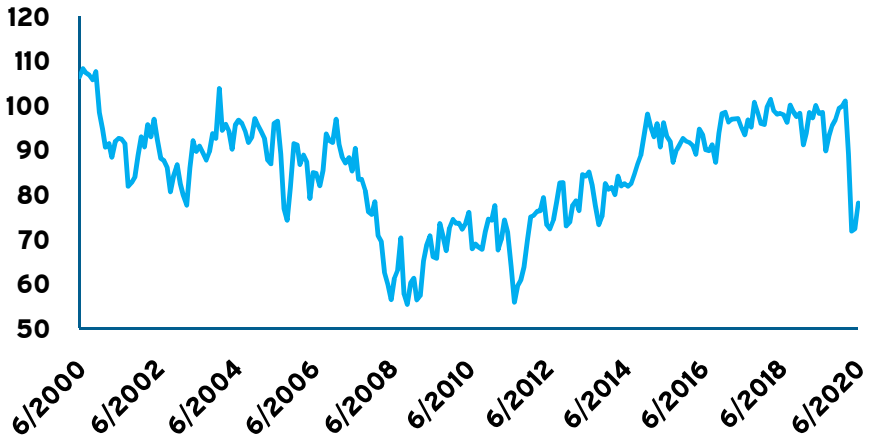
- Fiscal programs including stimulus checks, enhanced unemployment benefits, and loans to small businesses through the Paycheck Protection Program (PPP) have largely supported income levels through the shutdown.
- Despite the income support, the savings rate has increased at the expense of spending, driven by uncertainties related to the future of the job market and stimulus programs.

[1] Source: Bloomberg. Data is as of June 30, 2020.

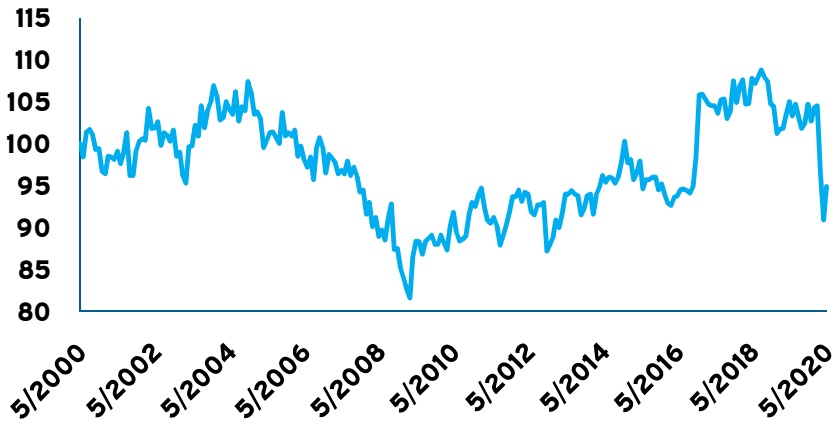
[2] Source: Bloomberg. Data is as of May 31, 2020.

Sentiment Indicators

University of Michigan Consumer Sentiment[1]



Small Business Confidence[2]



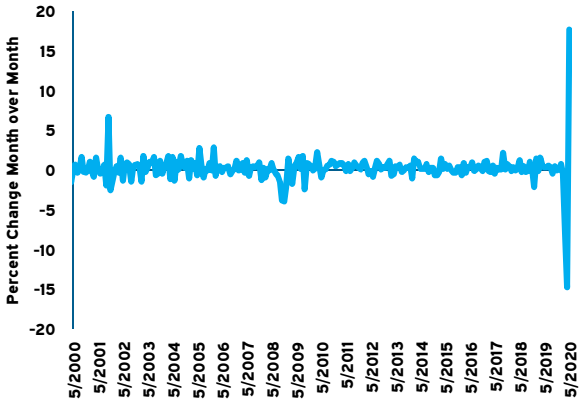
- A strong indicator of future economic activity are the attitudes of businesses and consumers today.
- Consumer spending comprises close to 70% of US GDP, making the attitudes of consumers an important driver of economic growth. Additionally, small businesses comprise a majority of the economy, making sentiment in that segment important too.
- Sentiment indicators have shown some improvements as the economy re-opens, but they remain well below prior levels.

[1] Source: Bloomberg. University of Michigan Consumer Sentiment Index. Data is as of June 30, 2020.

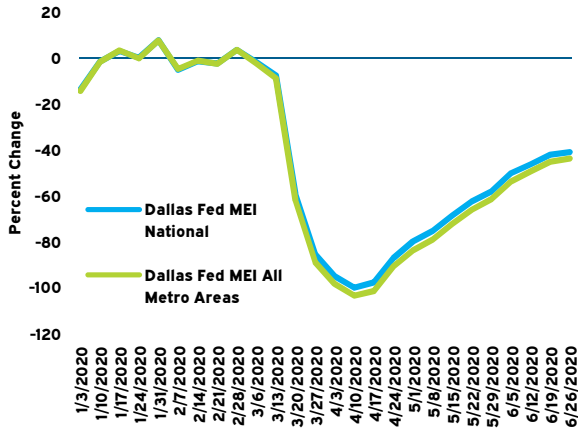
[2] Source: Bloomberg. NFIB Small Business Optimism Index. Data is as of May 30, 2020.

Some US Data has Improved

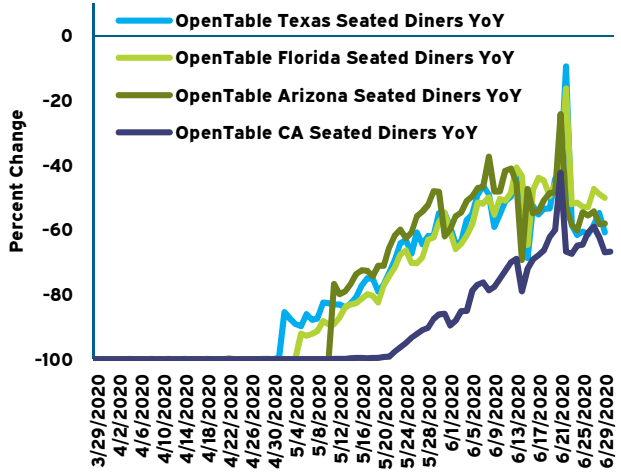
Retail Sales[1]



Dallas Fed Mobility and Engagement Index[2]



OpenTable Seated Diners YoY % Change[3]



- There have been improvements in high frequency data, but overall levels remain well below prior readings.
- Generally, people have become more active as restrictions eased and stores reopened. Retail sales recovered from a record decline with a record increase, more than double the forecast.
- States that eased restrictions on restaurants saw initial improvements before declining, as in-store dining has been cited as a key contributor to increases in cases.

[1] Source: Bloomberg. Data is as of May 31, 2020 and represents the US Retail Sales SA MoM%

[2] Source: Bloomberg. Data is as of June 26, 2020 and represents the deviation from normal mobility behaviors induced by COVID-19 (formerly the "Social Distancing Index").

[3] Source Bloomberg. Data is as of June 30, 2020 and represents some states that eased restaurant restrictions.

Government Re-Opening Recommendation[1]

Phase One	Phase Two	Phase Three
• Vulnerable individuals continue to stay at home. • Avoid groups of more than 10 people if social distancing is not possible. • Minimize non-essential travel. • Work remotely if possible with restrictions in the office for those businesses that open. • Schools remain closed, but some larger venues can open with strict protocols. • Outpatient elective surgeries can resume.	• Vulnerable individuals continue to stay at home. • Avoid groups of more than 50 people if social distancing is not possible. • Non-essential travel resumes. • Continue to work remotely if possible with restrictions in the office for those businesses that open. • Schools can reopen. • Inpatient elective surgeries can resume	• Vulnerable individuals can return to public life with social distancing. • Workplaces can reopen without restrictions. • Larger venues can operate under reduced social distancing protocols.

- The Trump administration announced guidelines for re-opening the US economy.
- Guidelines recommend states document a "downward trajectory" in new cases for two weeks before beginning a three-phase process to scale back distancing measures and reopen local economies.
- States should also document an additional two-week period decline in instances between each of the three phases, and be prepared to reinstate social distancing measures should cases rebound.
- The recent spike in cases in certain states, and the potential for similar increases elsewhere, remains a significant headwind to the re-opening plans in the US.

[1] Source: https://www.whitehouse.gov/openingamerica/

Looking Forward…

- There will be significant economic impact and a global recession.
  - How deep it will be and how long it will last depend on factors (below) that are unknowable at this time.
- The length of the virus and country responses will be key considerations.
  - As of now, it is not clear the end is in sight, particularly given the recent increases in cases in certain areas; however, individual countries are attempting to lay the groundwork to support a recoveries in their economies.
- Central banks and governments are pledging support, but will it be enough?
  - Market reactions to announced policies have been positive, but additional support will likely be required until the virus gets better contained.
- Expect heightened market volatility given the recent spike in cases and valuation levels.
  - This has been a consistent theme recently; volatility is likely to remain elevated for some time.
- It is important to retain a long-term focus.
  - History supports the argument that maintaining a long-term focus will ultimately prove beneficial for diversified portfolios.

Prior Drawdowns and Recoveries from 1926-2020[1]

Period	Peak-to-Trough Decline of the S&P 500	Approximate Time to Recovery
Sept 1929 to June 1932	-85%	266 months
February 1937 to April 1942	-57%	48 months
May 1946 to February 1948	-25%	27 months
August 1956 to October 1957	-22%	11 months
December 1961 to June 1962	-28%	14 months
February 1966 to October 1966	-22%	7 months
November 1968 to May 1970	-36%	21 months
January 1973 to October 1974	-48%	69 months
September 1976 to March 1978	-19%	17 months
November 1980 to August 1982	-27%	3 months
August 1987 to December 1987	-32%	19 months
July 1990 to October 1990	-20%	4 months
July 1998 to August 1998	-19%	3 months
March 2000 to October 2002	-49%	56 months
October 2007 to March 2009	-57%	49 months
February 2020 to May 2020	-34%	TBD
Average	**-36%**	**41 months**
Average ex. Great Depression	**-33%**	**25 months**

- As markets continue to recover questions remain about whether the ultimate low has been seen.
- Markets are continuing to reprice amid the uncertain impact of the virus on companies and the broader economy, which means this drawdown is still being defined in the context of history.
- That said, financial markets have experienced material declines with some frequency, and while certain declines took a meaningful time to recover, in all cases they eventually did.

[1] Source: Goldman Sachs. Recent peak to trough declines are through June 30, 2020.

Implications for Clients

- Portfolios have generally experienced significant improvements from the March lows.
- Even though equity markets have recovered from their lows, it is important to remain vigilant and be prepared to rebalance if volatility increases again.
  - Before rebalancing, consider changes in liquidity needs given the potential for cash inflows to decline in some cases.
  - Also, consider the cost of rebalancing if investment liquidity declines.
- Diversification works. The latest decline was an example of a flight to quality leading to gains in very high quality bonds.

Performance YTD
(through June 30, 2020)

S&P 500	ACWI (ex. US)	Aggregate Bond Index	Balanced Portfolio[1]
-3.1%	-11.2%	6.1%	-2.6%

- Meketa will continue to monitor the situation and communicate frequently.
  - The situation is fluid and the economic impact is uncertain at this stage.
- Please feel free to reach out with any questions.

[1] Source: InvestorForce. Balanced Portfolio represents 60% MSCI ACWI and 40% Bloomberg Barclays Global Aggregate.

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