

Quarterly Market Review Second Quarter 2020

🖄 Retirement Researcher



Quarterly Market Review

Second Quarter 2020

This report features world capital market performance and a timeline of events for the past quarter. It begins with a global overview, then features the returns of stock and bond asset classes in the US and international markets.

The report also illustrates the impact of globally diversified portfolios and features a quarterly topic.

Overview:

Market Summary

World Stock Market Performance

World Asset Classes

US Stocks

International Developed Stocks

Emerging Markets Stocks

Select Market Performance

Select Currency Performance vs. US Dollar

Real Estate Investment Trusts (REITs)

Commodities

Fixed Income

Global Fixed Income

Impact of Diversification

Quarterly Topic: Long-Term Investors, Don't Let a Recession Faze You



Quarterly Market Summary

Index Returns

	US Stock Market	International Developed Stocks	Emerging Markets Stocks	Global Real Estate	US Bon Market	Global Bond d Market ex US
2Q 2020		STO	скѕ			BONDS
	22.03%	15.34%	18.08%	11.17%	2.90%	5 1.76%

Since Jan. 2001						
Avg. Quarterly Return	2.1%	1.4%	2.7%	2.3%	1.2%	1.1%
Best	22.0%	25.9%	34.7%	32.3%	4.6%	4.6%
Quarter	2020 Q2	2009 Q2	2009 Q2	2009 Q3	2001 Q3	2008 Q4
Worst	-22.8%	-23.3%	-27.6%	-36.1%	-3.0%	-2.7%
Quarter	2008 Q4	2020 Q1	2008 Q4	2008 Q4	2016 Q4	2015 Q2

Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect the expenses associated with the management of an actual portfolio. Market segment (index representation) as follows: US Stock Market (Russell 3000 Index), International Developed Stocks (MSCI World ex USA Index [net div.]), Emerging Markets (MSCI Emerging Markets Index [net div.]), Global Real Estate (S&P Global REIT Index [net div.]), US Bond Market (Bloomberg Barclays US Aggregate Bond Index), and Global Bond Market ex US (Bloomberg Barclays Global Aggregate ex-USD Bond Index [hedged to USD]). S&P data © 2020 S&P Dow Jones Indices LLC, a division of S&P Global. All rights reserved. Frank Russell Company is the source and owner of the trademarks, service marks, and copyrights related to the Russell Indexes. MSCI data © MSCI 2020, all rights reserved. Bloomberg Barclays data provided by Bloomberg.



Long-Term Market Summary

Index Returns

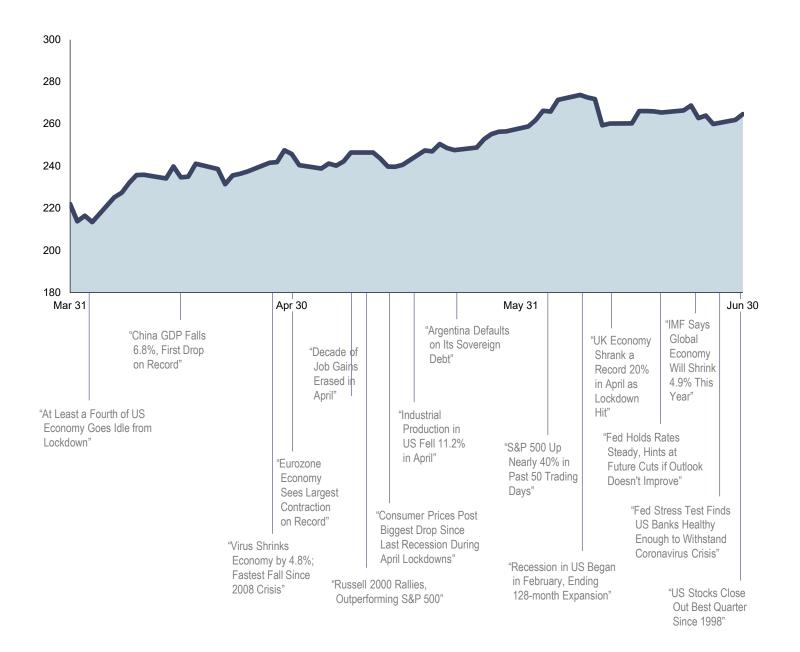


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World Stock Market Performance

MSCI All Country World Index with selected headlines from Q2 2020



These headlines are not offered to explain market returns. Instead, they serve as a reminder that investors should view daily events from a long-term perspective and avoid making investment decisions based solely on the news.

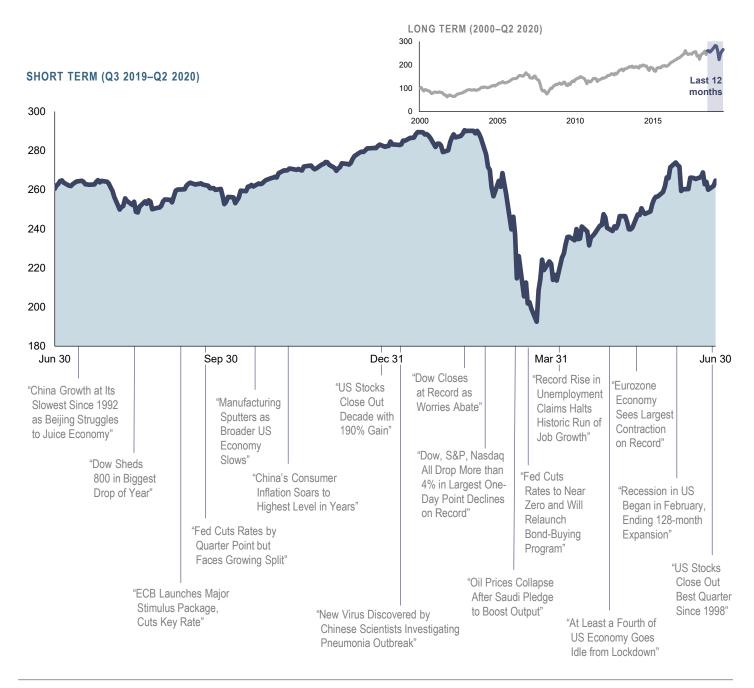
Graph Source: MSCI ACWI Index [net div.]. MSCI data © MSCI 2020, all rights reserved.

It is not possible to invest directly in an index. Performance does not reflect the expenses associated with management of an actual portfolio. Past performance is not a guarantee of future results.



World Stock Market Performance

MSCI All Country World Index with selected headlines from past 12 months



These headlines are not offered to explain market returns. Instead, they serve as a reminder that investors should view daily events from a long-term perspective and avoid making investment decisions based solely on the news.

Graph Source: MSCI ACWI Index [net div.]. MSCI data © MSCI 2020, all rights reserved.

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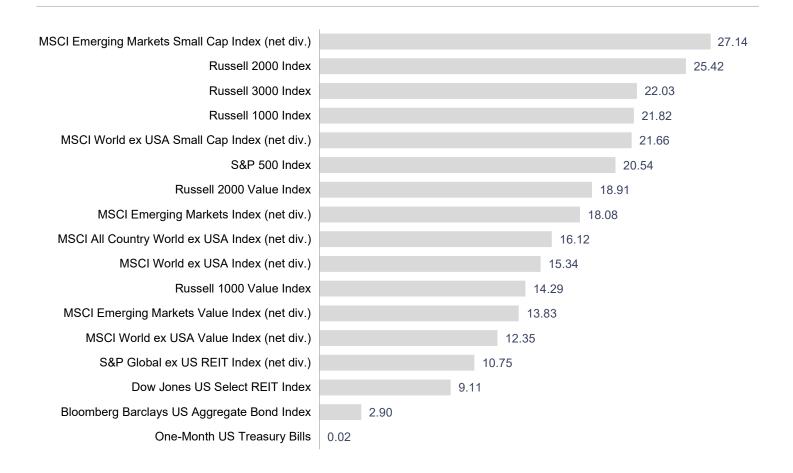
World Asset Classes

Second Quarter 2020 Index Returns (%)

Equity markets around the globe posted positive returns in the second quarter. Looking at broad market indices, US equities outperformed non-US developed markets and emerging markets.

Value stocks underperformed growth stocks, and small caps outperformed large caps.

REIT indices underperformed equity market indices in both the US and non-US developed markets.



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US Stocks

Second Quarter 2020 Index Returns

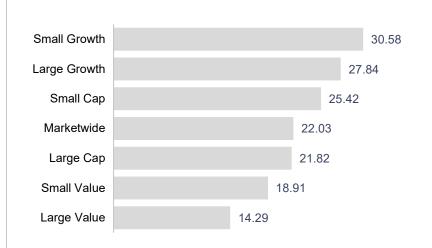
The US equity market posted positive returns for the quarter, outperforming non-US developed markets and emerging markets.

Value underperformed growth in the US across large and small cap stocks.

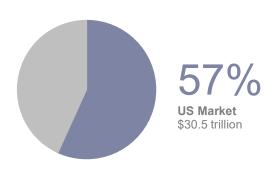
Small caps outperformed large caps in the US.

REIT indices underperformed equity market indices.

Ranked Returns (%)



World Market Capitalization—US



Period Returns (%)

Asset Class	YTD	1 Year	3 Years*	5 Years*	10 Years*
Large Growth	9.81	23.28	18.99	15.89	17.23
Large Cap	-2.81	7.48	10.64	10.47	13.97
Small Growth	-3.06	3.48	7.86	6.86	12.92
Marketwide	-3.48	6.53	10.04	10.03	13.72
Small Cap	-12.98	-6.63	2.01	4.29	10.50
Large Value	-16.26	-8.84	1.82	4.64	10.41
Small Value	-23.50	-17.48	-4.35	1.26	7.82

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* Annualized

International Developed Stocks

Second Quarter 2020 Index Returns

Developed markets outside the US underperformed both the US equity market and emerging markets equities for the quarter.

Small caps outperformed large caps in non-US developed markets.

Value underperformed growth across large and small cap stocks.



World Market Capitalization— International Developed



Period Returns (%)

Asset Class	YTD	1 Year	3 Years*	5 Years*	10 Years*
Growth	-3.11	4.25	5.93	5.29	7.36
Large Cap	-11.49	-5.42	0.84	2.01	5.43
Small Cap	-12.87	-3.20	0.53	3.56	7.26
Value	-19.96	-15.14	-4.42	-1.46	3.36

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* Annualized



Emerging Markets Stocks

Second Quarter 2020 Index Returns

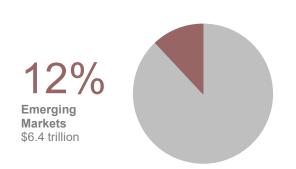
Emerging markets underperformed the US equity market but outperformed developed ex US equities for the quarter.

Value stocks underperformed growth stocks.

Small caps outperformed large caps.



World Market Capitalization— Emerging Markets



Period Returns (%)

	. ,				
Asset Class	YTD	1 Year	3 Years*	5 Years*	10 Years*
Growth	-1.52	9.67	6.19	6.35	5.76
Large Cap	-9.78	-3.39	1.90	2.86	3.27
Small Cap	-12.74	-8.82	-2.95	-1.38	1.78
Value	-18.05	-15.74	-2.64	-0.80	0.66

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* Annualized

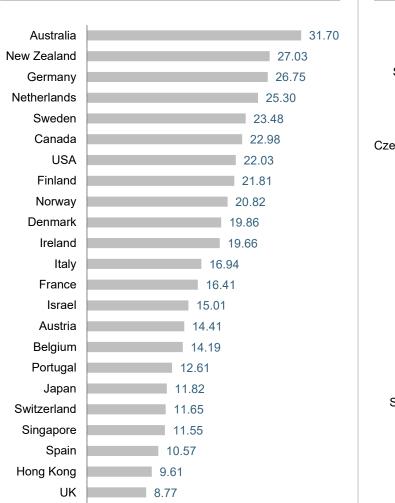


Select Market Performance

Second Quarter 2020 Index Returns

Ranked Developed Markets Returns (%)

In US dollar terms, Australia and New Zealand recorded the highest country performance in developed markets, while the UK and Hong Kong posted the lowest returns for the quarter. In emerging markets, Argentina and Thailand recorded the highest country performance, while Qatar and Colombia posted the lowest performance.



Ranked Emerging Markets Returns (%)

Argentina		35.81
Thailand	26.97	
South Africa	26.78	
Indonesia	25.12	
Brazil	23.83	
Taiwan	23.38	
Czech Republic	23.28	
Poland	22.91	
Turkey	22.39	
India	21.52	
Korea	20.60	
Philippines	19.34	
Russia	19.09	
Chile	17.12	
UAE	16.67	
Greece	16.39	
Malaysia	16.03	
China	15.22	
Pakistan	14.70	
Hungary	14.60	
Saudi Arabia	13.89	
Mexico	11.81	
Egypt	10.70	
Peru	10.34	
Colombia	9.88	
Qatar	8.53	

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Select Currency Performance vs. US Dollar

Second Quarter 2020

Ranked Developed Markets Returns (%)

In developed markets, most currencies appreciated vs. the US dollar except for the British pound. In emerging markets, currency performance vs. the US dollar was mixed. Most currencies generally appreciated vs. the US dollar, but others, notably the Argentinian peso and Brazilian real, depreciated.

Ranked Developed Markets R	Ranked Emerging Markets Retur		
Australian dollar (AUD)	12.49	Indonesian rupiah (IDR)	
Nanyagian krana (NOK)	0.05	Russian ruble (RUB)	
Norwegian krone (NOK)	8.85	Colombian peso (COP)	
New Zealand dollar (NZD)	8.59	Thai baht (THB)	
	0.00	Czech koruna (CZK)	
Swedish krona (SEK)	6.34	Polish zloty (PLN)	
, , , , , , , , , , , , , , , , , , ,		Hungarian forint (HUF)	
Canadian dollar (CAD)	4.50	Chilean peso (CLP)	
		South African rand (ZAR)	
Danish krone (DKK)	2.48	New Taiwan dollar (TWD)	
		Philippine peso (PHP)	
Euro (EUR)	2.36	Mexican peso (MXN)	
Israeli New shekel (ILS)	2.21	Korean won (KRW)	
Islaeli new shekei (ilo)	2.21	Malaysian ringgit (MYR)	
Swiss franc (CHF)	2.11	Chinese renminbi (CNY)	
		Indian rupee (INR)	
Singapore dollar (SGD)	2.06	Saudi Arabian riyal (SAR)	
		Pakistani rupee (PKR)	-1.0
Japanese yen (JPY)	0.06	Egyptian pound (EGP)	-2.48
		Peruvian sol (PEN)	-2.74
Hong Kong dollar (HKD)	0.01	Turkish lira (TRY)	-3.86
		Brazilian real (BRL)	-5.54
British pound (GBP) -0.35		Argentinian peso (ARS)	-8.61

Ranked Emerging Markets Returns (%)

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14.18

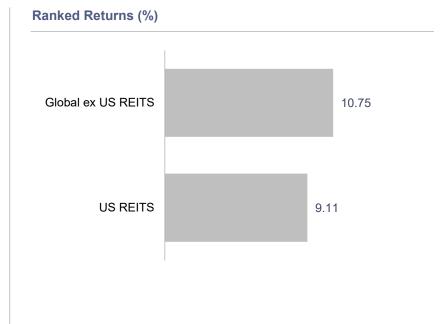
9.65 8.58 6.18 5.26 5.00 4.17 3.87 2.79 2.50 2.08 1.52 1.21 0.82 0.27 0.20 0.16

-1.07 -2.48 -2.74 -3.86 -5.54

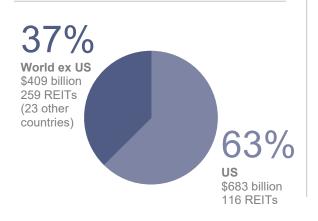
Real Estate Investment Trusts (REITs)

Second Quarter 2020 Index Returns

US real estate investment trusts underperformed non-US REITs in US dollar terms during the quarter.



Total Value of REIT Stocks



Period	Returns	(%)
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*	Ann	ual	ize	d
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Asset Class	YTD	1 Year	3 Years*	5 Years*	10 Years*
US REITS	-22.01	-17.71	-1.99	2.45	8.27
Global ex US REITS	-25.25	-19.44	-2.37	-0.11	5.73

Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect the expenses associated with the management of an actual portfolio. Number of REIT stocks and total value based on the two indices. All index returns are net of withholding tax on dividends. Total value of REIT stocks represented by Dow Jones US Select REIT Index and the S&P Global ex US REIT Index. Dow Jones US Select REIT Index used as proxy for the US market, and S&P Global ex US REIT Index used as proxy for the World ex US market. Dow Jones and S&P data © 2020 S&P Dow Jones Indices LLC, a division of S&P Global. All rights reserved.



Commodities

Second Quarter 2020 Index Returns

The Bloomberg Commodity Index Total Return returned 5.08% for the second quarter.

Unleaded gas and Brent crude oil were the best performers, returning 69.46% and 31.26%, respectively.

Lean hogs and coffee were the worst performers, declining 23.90% and 17.78%, respectively.

Ranked Returns (%)

Unleaded gas	69.46
Brent crude oil	31.26
Silver	29.12
WTI crude oil	23.53
Copper	21.12
Cotton	19.43
Sugar	12.71
Gold	12.03
Nickel	10.76
Zinc	6.75
Low sulphur gas oil	6.44
Heating oil	6.35
Aluminum	3.94
Soybean oil	1.91
Live cattle -0.67	
Soybean -2.65	
Corn -2.88	
Soybean meal -12.49	
Kansas wheat -13.65	
Natural gas -14.26	
Wheat -14.54	
Coffee -17.78	
Lean hogs -23.90	
	1
Period Returns (%)	* Annualized
Asset Class QTR YTD 1 Yea	ear 3 Years* 5 Years* 10 Years*
Commodities 5.08 -19.40 -17.3	38 -6.14 -7.69 -5.82

Past performance is not a guarantee of future results. Index is not available for direct investment. Index performance does not reflect the expenses associated with the management of an actual portfolio. Commodities returns represent the return of the Bloomberg Commodity Total Return Index. Individual commodities are sub-index values of the Bloomberg Commodity Total Return Index. Data provided by Bloomberg.



Fixed Income

Second Quarter 2020 Index Returns

Interest rate changes were mixed in the US Treasury fixed income market in the second quarter. The yield on the 5-Year US Treasury Note decreased by 8 basis points (bps), ending at 0.29%. The yield on the 10-year note decreased by 4 bps to 0.66%. The 30-Year US Treasury Bond yield increased by 6 bps to 1.41%.

On the short end of the curve, the 1-Month T-bill yield rose by 8 bps to 0.13%, while the 1-year T-bill yield fell by 1 bp to 0.16%. The 2-year note finished at 0.16% after a yield decrease of 7 bps.

In terms of total returns, short-term corporate bonds returned 5.59% for the quarter. Intermediate corporates returned 7.63%. The total return for short-term municipal bonds was 2.38%, while intermediate-term muni bonds returned 3.19%. General obligation bonds outperformed revenue bonds.

US Treasury Yield Curve (%) 4.00 3.00 6/30/2019 2.00 6/30/2020 3/31/2020 1.00 0.00 10 30 5 Yr Yr Yr Yr Bond Yields across Issuers (%) 2.52 2.33 1.61 0.66 10-Year US State and Local AAA-AA A-BBB Treasury Municipals Corporates Corporates

Period	Returns	(%)
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Period Returns (%)					*Annualized	
Asset Class	QTR	YTD	1 Year	3 Years*	5 Years*	10 Years*
Bloomberg Barclays US High Yield Corporate Bond Index	10.18	-3.80	0.03	3.33	4.79	6.68
Bloomberg Barclays US TIPS Index	4.24	6.01	8.28	5.05	3.75	3.52
Bloomberg Barclays US Aggregate Bond Index	2.90	6.14	8.74	5.32	4.30	3.82
Bloomberg Barclays Municipal Bond Index	2.72	2.08	4.45	4.22	3.93	4.22
FTSE World Government Bond Index 1-5 Years	1.41	2.11	2.27	1.86	1.68	0.62
FTSE World Government Bond Index 1-5 Years (hedged to USD	0.53	2.79	3.96	3.09	2.38	1.96
Bloomberg Barclays US Government Bond Index Long	0.28	20.97	25.14	11.96	9.21	7.71
ICE BofA US 3-Month Treasury Bill Index	0.02	0.60	1.63	1.77	1.19	0.64
ICE BofA 1-Year US Treasury Note Index	-0.03	1.69	2.86	2.25	1.54	0.95

One basis point (bps) equals 0.01%. Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect the expenses associated with the management of an actual portfolio. Yield curve data from Federal Reserve. State and local bonds are from the S&P National AMT-Free Municipal Bond Index. AAA-AA Corporates represent the ICE BofA US Corporates, AA-AAA rated. A-BBB Corporates represent the ICE BofA US Corporates, BBB-A rated. Bloomberg Barclays data provided by Bloomberg. US long-term bonds, bills, inflation, and fixed income factor data © Stocks, Bonds, Bills, and Inflation (SBBI) Yearbook M, Ibbotson Associates, Chicago (annually updated work by Roger G. Ibbotson and Rex A. Sinquefield). FTSE fixed income indices © 2020 FTSE Fixed Income LLC, all rights reserved. ICE BofA index data © 2020 ICE Data Indices, LLC. S&P data © 2020 S&P Dow Jones Indices LLC, a division of S&P Global. All rights reserved.

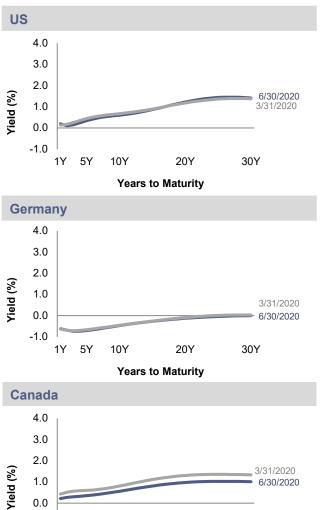
Global Fixed Income

Second Quarter 2020 Yield Curves

Changes in government bond interest rates in the developed markets were mixed for the quarter.

Longer-term bonds generally outperformed shorterterm bonds in global developed markets.

Short- and intermediate-term nominal interest rates were negative in Japan, while all maturities finished the quarter negative in Germany.



0.0

-1.0

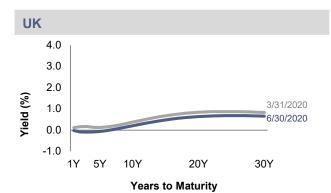
1Y 5Y 10Y

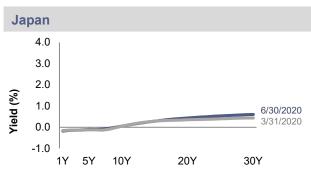
20Y

Years to Maturity

Changes in Yields (bps) since 3/31/2020

	1Y	5Y	10Y	20Y	30Y
US	5.7	-9.9	-6.9	4.6	3.1
UK	-13.5	-18.9	-17.1	-20.2	-16.9
Germany	1.2	-4.0	-1.5	-3.2	-3.3
Japan	-3.0	2.2	0.0	8.9	16.1
Canada	-21.0	-24.6	-24.5	-33.1	-32.6
Australia	1.4	6.1	10.7	7.0	8.9





Years to Maturity



One basis point (bps) equals 0.01%. Source: ICE BofA government yield. ICE BofA index data © 2020 ICE Data Indices, LLC.

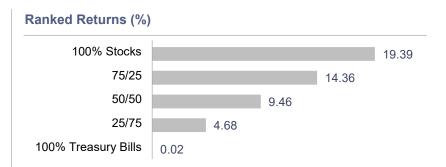
30Y



Impact of Diversification

Second Quarter 2020

These portfolios illustrate the performance of different global stock/bond mixes and highlight the benefits of diversification. Mixes with larger allocations to stocks are considered riskier but have higher expected returns over time.

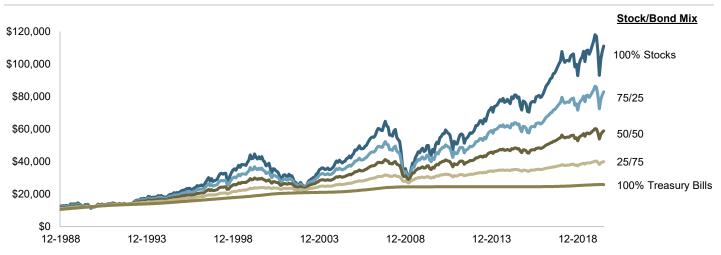


Period Returns (%)

* Annualized

Asset Class	YTD	1 Year	3 Years*	5 Years*	10 Years*	10-Year STDEV¹
100% Treasury Bills	0.39	1.35	1.62	1.07	0.55	0.23
25/75	-0.86	2.10	3.12	2.73	2.97	3.49
50/50	-2.34	2.57	4.48	4.29	5.31	7.00
75/25	-4.05	2.75	5.67	5.72	7.57	10.51
100% Stocks	-5.99	2.64	6.70	7.03	9.74	14.02

Growth of Wealth: The Relationship between Risk and Return



1. STDEV (standard deviation) is a measure of the variation or dispersion of a set of data points. Standard deviations are often used to quantify the historical return volatility of a security or portfolio.

Diversification does not eliminate the risk of market loss. Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect expenses associated with the management of an actual portfolio. Asset allocations and the hypothetical index portfolio returns are for illustrative purposes only and do not represent actual performance. Global Stocks represented by MSCI All Country World Index (gross div.) and Treasury Bills represented by US One-Month Treasury Bills. Globally diversified allocations rebalanced monthly, no withdrawals. Data © MSCI 2020, all rights reserved. Treasury bills © Stocks, Bonds, Bills, and Inflation Yearbook™, Ibbotson Associates, Chicago (annually updated work by Roger G. Ibbotson and Rex A. Sinquefield).



Long-Term Investors, Don't Let a Recession Faze You

Second Quarter 2020

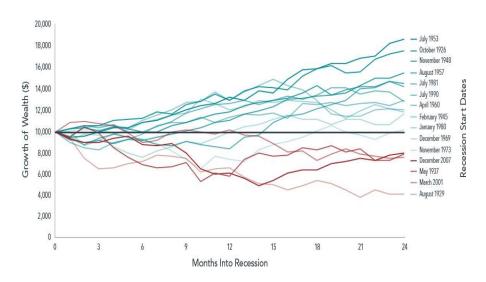
With activity in many industries sharply curtailed in an effort to reduce the chances of spreading the coronavirus, some economists say a recession is inevitable, if one hasn't already begun.¹ From a markets perspective, we have already experienced a drop in stocks, as prices have likely incorporated the growing chance of recession. Investors may be tempted to abandon equities and go to cash because of perceptions of recessions and their impact. But across the two years that follow a recession's onset, equities have a history of positive performance.

Data covering the past century's 15 US recessions show that investors tended to be rewarded for sticking with stocks. **Exhibit 1** shows that in 11 of the 15 instances, or 73% of the time, returns on stocks were positive two years after a recession began. The annualized market return for the two years following a recession's start averaged 7.8%.

Recessions understandably trigger worries over how markets might perform. But history can be a comfort for investors wondering whether now may be the time to move out of stocks.

Exhibit 1. Downturns, Then Upturns

Growth of wealth for the Fama/French Total US Market Research Index



Past performance, including hypothetical performance, is not a guarantee of future results.

In USD. Performance includes reinvestment of dividends and capital gains. Indices are not available for direct investment; therefore, their performance does not reflect the expenses associated with the management of an actual portfolio.

Growth of wealth shows the growth of a hypothetical investment of \$10,000 in the securities in the Fama/French US Total Market Research Index over the 24 months starting the month after the relevant Recession Start Date. Sample includes 15 recessions as identified by the National Bureau of Economic Research (NBER) from October 1926 to December 2007. NBER defines recessions as starting at the peak of a business cycle.

^{1.} Nelson D. Schwartz, "Coronavirus Recession Looms, Its Course 'Unrecognizable," New York Times, March 21, 2020; Peter Coy, "The U.S. May Already Be in a Recession," Bloomberg Businessweek, March 6, 2020.



Long-Term Investors, Don't Let a Recession Faze You

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GLOSSARY

Fama/French Total US Market Research Index: The valueweighed US market index is constructed every month, using all issues listed on the NYSE, AMEX, or Nasdaq with available outstanding shares and valid prices for that month and the month before. Exclusions: American Depositary Receipts. Sources: CRSP for value-weighted US market return. Rebalancing: Monthly. Dividends: Reinvested in the paying company until the portfolio is rebalanced.

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