

Quarterly Market Review Third Quarter 2022



GOEPPER BURKHARDT

Retirement Wealth Management

Quarterly Market Review

Third Quarter 2022



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 **US Stocks** International Developed Stocks **Emerging Markets Stocks Country Returns** Real Estate Investment Trusts (REITs) Commodities **Fixed Income Global Fixed Income** Impact of Diversification Quarterly Topic: What Drives Investment Returns? Start with Ingenuity. Appendix

Quarterly Market Summary



Index returns

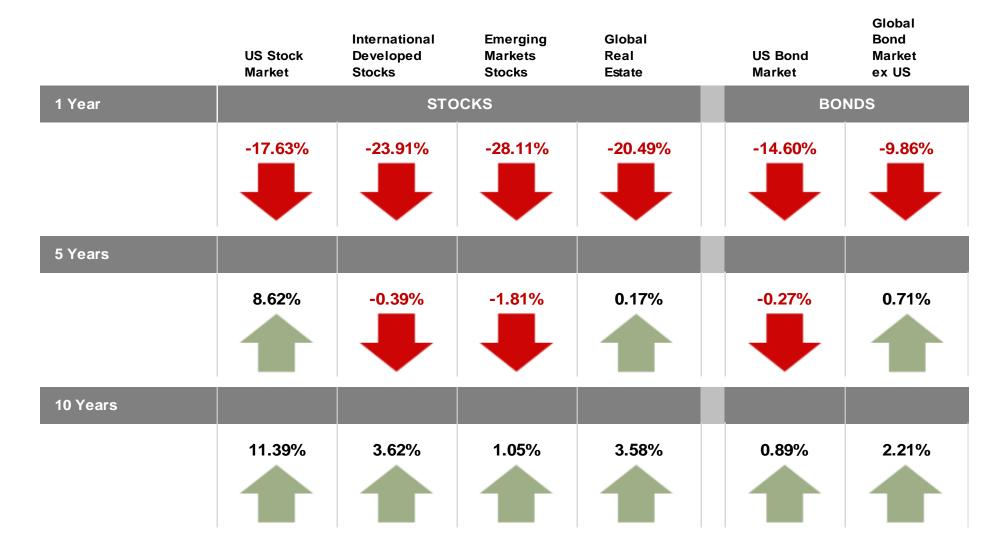
	US Stock Market	International Developed Stocks	Emerging Markets Stocks	Global Real Estate	US Bond Market	Global Bond Market ex US		
Q3 2022		STO	CKS		ВО	BONDS		
	-4.46%	-9.20%	-11.57%	-11.12%	-4.75%	-2.21%		
Since Jan. 2001					_			
Average Quarterly Return	2.1%	1.3%	2.4%	2.2%	0.9%	0.9%		
Best	22.0%	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%	-5.9%	-4.1%		
Quarter	2008 Q4	2020 Q1	2008 Q4	2008 Q4	2022 Q1	2022 Q1		

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 dividends]), Emerging Markets (MSCI Emerging Markets Index [net dividends]), Global Real Estate (S&P Global REIT Index [net dividends]), US Bond Market (Bloomberg US Aggregate Bond Index), and Global Bond Market ex US (Bloomberg Global Aggregate ex-USD Bond Index [hedged to USD]). S&P data © 2022 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 2022, all rights reserved. Bloomberg data provided by Bloomberg.

Long-Term Market Summary



Index returns as of September 30, 2022

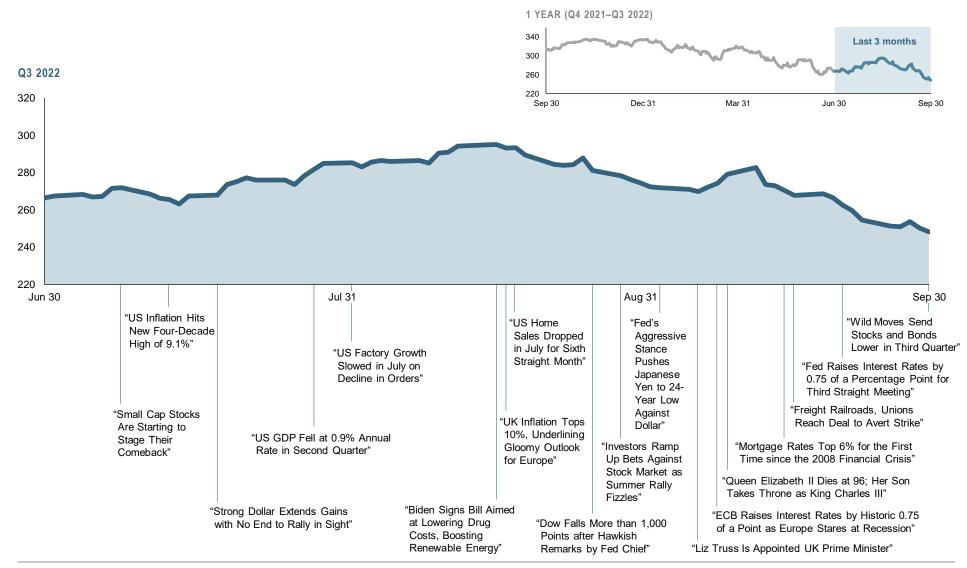


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World Stock Market Performance

MSCI All Country World Index with selected headlines from Q3 2022





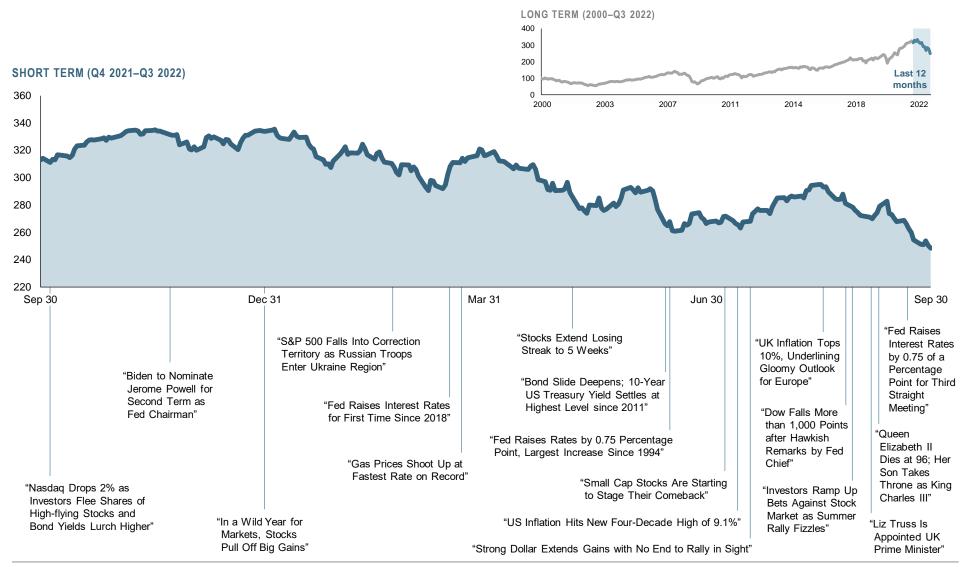
These headlines are not offered to explain market returns. Instead, they serve as a reminder that investors should view daily events from a long-term perspective and avoid making investment decisions based solely on the news.

Graph Source: MSCI ACWI Index (net dividends). MSCI data © MSCI 2022, 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.

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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 dividends). MSCI data © MSCI 2022, 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.

US Stocks Third quarter 2022 index returns

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The US equity market posted negative returns for the quarter and outperformed both non-US developed and emerging markets.

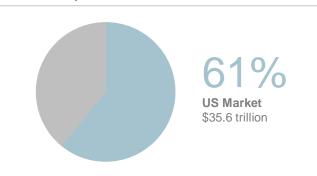
Value underperformed growth.

Small caps outperformed large caps.

REIT indices underperformed equity market indices.



World Market Capitalization—US



Period Returns (%) * Annualized Asset Class QTR YTD 1 Year 3 Years* 5 Years* 10 Years* Small Growth 0.24 -29.28 -29.27 2.94 3.60 8.81 Small Cap -25.10 -2.19 -23.50 4.29 3.55 8.55 -30.66 Large Growth -3.60 -22.59 10.67 12.17 13.70 -24.62 7.70 Marketwide -4.46 -17.63 8.62 11.39 Large Cap -4.61 -24.59 -17.22 7.95 9.00 11.60 Small Value -21.12 7.94 -4.61 -17.69 4.72 2.87 9.17 Large Value -5.62 -17.75 -11.36 4.36 5.29

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: Marketwide (Russell 3000 Index), Large Cap (Russell 1000 Index), Large Value (Russell 1000 Value Index), Large Growth (Russell 1000 Growth Index), Small Cap (Russell 2000 Index), Small Value (Russell 2000 Value Index), and Small Growth (Russell 2000 Growth Index). World Market Cap represented by Russell 3000 Index, MSCI World ex USA IMI Index, and MSCI Emerging Markets IMI Index. Russell 3000 Index is used as the proxy for the US market. Dow Jones US Select REIT Index used as proxy for the US REIT market. Frank Russell Company is the source and owner of the trademarks, service marks, and copyrights related to the Russell Indexes. MSCI data © MSCI 2022, all rights reserved.

International Developed Stocks

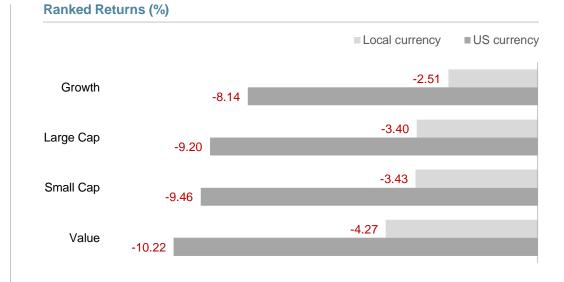
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Third quarter 2022 index returns

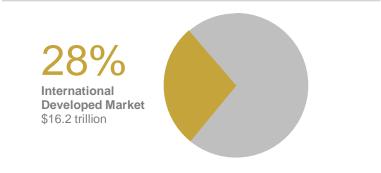
Developed markets outside of the US posted negative returns for the quarter and underperformed the US market, but outperformed emerging markets.

Value underperformed growth.

Small caps underperformed large caps.



World Market Capitalization—International Developed



Period Returns (%) * Annualiz							
Asset Class	QTR	YTD	1 Year	3 Years*	5 Years*	10 Years*	
Growth	-8.14	-32.33	-29.44	-1.14	0.85	4.46	
Large Cap	-9.20	-26.23	-23.91	-1.21	-0.39	3.62	
Small Cap	-9.46	-31.07	-30.80	-1.27	-1.24	4.78	
Value	-10.22	-20.10	-18.58	-1.97	-2.08	2.53	

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Emerging Markets Stocks

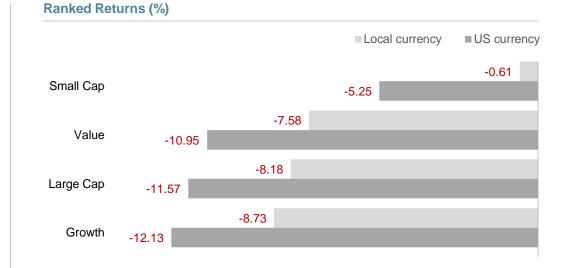


Third quarter 2022 index returns

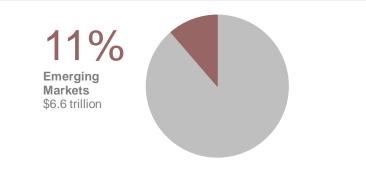
Emerging markets posted negative returns for the quarter and underperformed both US and non-US developed markets.

Value outperformed growth.

Small caps outperformed large caps.



World Market Capitalization—Emerging Markets



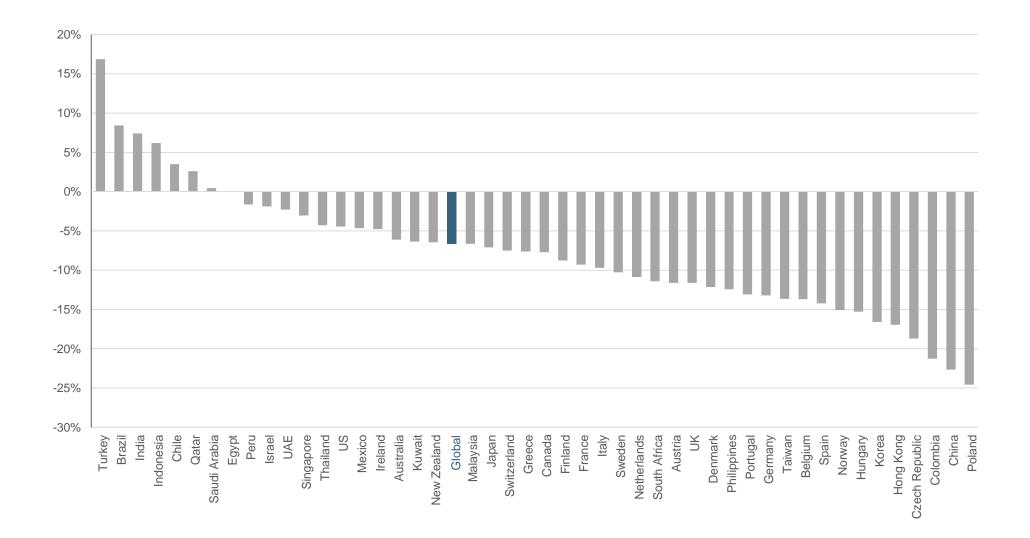
Period Returns (%) * Annualiz								
Asset Class	QTR	YTD	1 Year	3 Years*	5 Years*	10 Years*		
Small Cap	-5.25	-24.23	-23.23	5.54	1.25	2.91		
Value	-10.95	-23.32	-23.63	-2.57	-2.13	-0.41		
Large Cap	-11.57	-27.16	-28.11	-2.07	-1.81	1.05		
Growth	-12.13	-30.65	-32.09	-1.75	-1.64	2.38		

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Country Returns

Third quarter 2022 index returns



Past performance is no guarantee of future results.

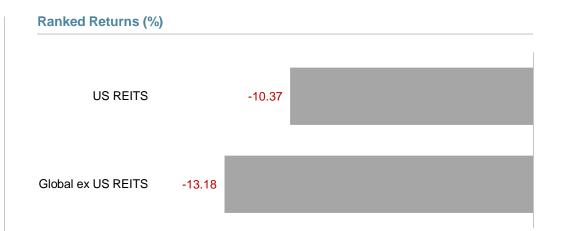
Country returns are the country component indices of the MSCI All Country World IMI Index for all countries except the United States, where the Russell 3000 Index is used instead. Global is the return of the MSCI All Country World IMI Index for all countries except the United States, where the Russell 3000 Index is used instead. Global is the return of the MSCI All Country World IMI Index. MSCI index. MSCI index returns are net dividend. Indices are not available for direct investment. Their performance does not reflect the expenses associated with the management of an actual portfolio. Frank Russell Company is the source and owner of the trademarks, service marks and copyrights related to the Russell Indexes. MSCI data © MSCI 2022, all rights reserved.

Real Estate Investment Trusts (REITs)

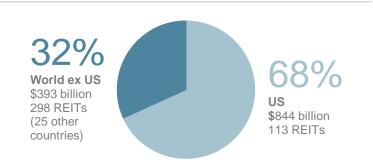


Third quarter 2022 index returns

US real estate investment trusts outperformed non-US REITs during the quarter.



Total Value of REIT Stocks



Period Returns (%)					*	Annualized
Asset Class	QTR	YTD	1 Year	3 Years*	5 Years*	10 Years*
US REITS	-10.37	-29.32	-17.15	-3.29	1.95	5.49
Global ex US REITS	-13.18	-30.48	-27.32	-9.72	-3.01	1.12

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 © 2022 S&P Dow Jones Indices LLC, a division of S&P Global. All rights reserved.

Commodities Third quarter 2022 index returns

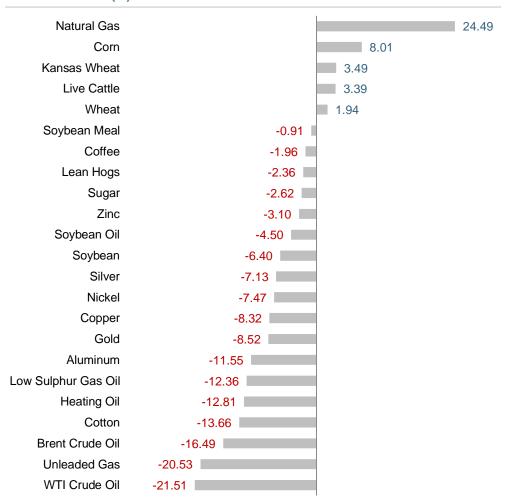


The Bloomberg Commodity Total Return Index returned -4.11% for the third quarter of 2022.

WTI Crude Oil and Unleaded Gas were the worst performers, returning -21.51% and -20.53% during the quarter, respectively. Natural Gas and Corn were the best performers, returning +24.49% and +8.01% during the quarter, respectively.

Period Returns (%)					* A	nnualized
Asset Class	QTR	YTD	1 Year	3 Years*	5 Years*	10 Years*
Commodities	-4.11	13.57	11.80	13.45	6.96	-2.14

Ranked Returns (%)



Fixed Income Third guarter 2022 index returns

Interest rates increased across all bond maturities in the US Treasury market for the quarter.

The yield on the 5-Year US Treasury Note increased 105 basis points (bps) to 4.06%. The yield on the 10-Year US Treasury Note increased 85 bps to 3.83%. The yield on the 30-Year US Treasury Bond increased 65 bps to 3.79%.

On the short end of the yield curve, the 1-Month US Treasury Bill yield increased 151 bps to 2.79%, while the 1-Year US Treasury Bill yield increased 125 bps to 4.05%. The yield on the 2-Year US Treasury Note increased 130 bps to 4.22%.

In terms of total returns, short-term corporate bonds returned -1.94% and intermediate-term corporate bonds returned -3.11%.¹

The total return for short-term municipal bonds was -1.88% and -2.65% for intermediate-term municipal bonds. Within the municipal fixed income market, general obligation bonds outperformed revenue bonds, returning -3.30% vs. -3.62%, respectively.²

1. Bloomberg US Corporate Bond Index.

2. Bloomberg Municipal Bond Index.

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, and the Yield to Worst 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 Corporates, BBB-A rated. Bloomberg data provided by Bloomberg. US long-term bonds, bills, inflation, and fixed income factor data © Stocks, Bonds, Bills, and Inflation (SBBI) Yearbook™, Ibbotson Associates, Chicago (annually updated work by Roger G. Ibbotson and Rex A. Sinquefield). FTSE fixed income indices © 2022 FTSE Fixed Income LLC, all rights reserved. ICE BofA index data © 2022 ICE Data Indices, LLC. S&P data © 2022 S&P Dow Jones Indices LLC, a division of S&P Global. All rights reserved. Bloomberg data provided by Bloomberg.



US Treasury Yield Curve (%)

5.00

4.00

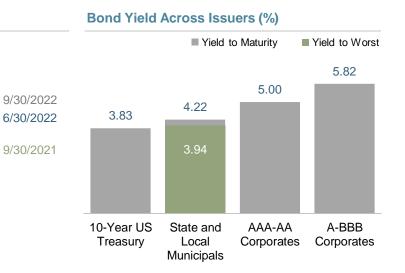
3.00

2.00

Period Returns (%)



30Y





*Annualized



Global Fixed Income

Third quarter 2022 yield curves

Interest rates generally increased within global developed markets for the quarter.

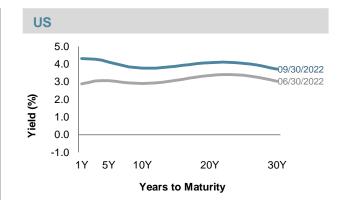
Realized term premiums were negative in global developed markets.

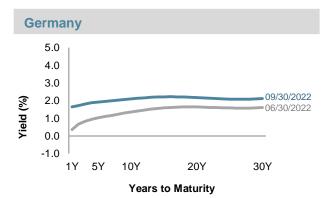
In Japan, short-term nominal interest rates remained negative. In Canada, the short-term segment of the yield curve inverted.

onanges in	TICIUS	(ph2)	Since	0,001	
	1Y	5Y	10Y	20Y	30Y

Changes in Vields (hns) since 6/30/2022

US	143.7	106.4	86.3	72.8	68.6
UK	235.1	238.0	188.6	137.8	117.5
Germany	128.0	88.7	73.9	53.5	50.9
Japan	-1.1	4.4	2.6	12.1	15.7
Canada	90.6	18.6	-4.1	-0.6	-3.5
Australia	81.1	34.8	23.4	27.6	22.6

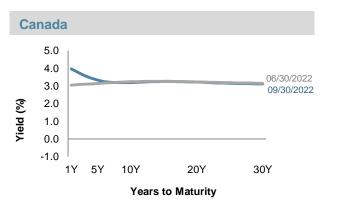


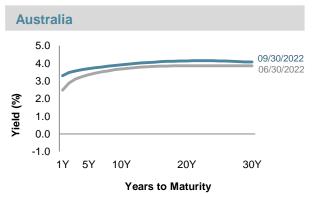




Japan 5.0 4.0 3.0 Yield (%) 2.0 09/30/2022 1.0 06/30/2022 0.0 -1.0 10Y 20Y 5Y 30Y 1Y

Years to Maturity





Impact of Diversification

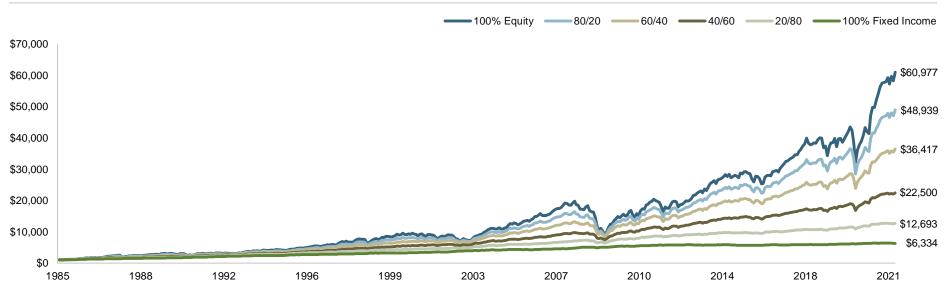
As of December 31, 2021



These indices 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 (%)					* A	nnualized
Dimensional Core Plus Wealth Index Model	3 Month	1 Year	3 Years*	5 Years*	10 Years*	10-Year STDEV ¹
100% Equity	6.61	22.63	21.12	14.57	13.24	14.11
80/20	5.30	17.70	18.49	12.90	11.94	11.76
60/40	3.86	12.63	15.37	10.82	9.99	9.07
40/60	2.22	7.79	10.82	7.75	7.28	6.13
20/80	0.55	2.10	6.40	4.89	4.05	3.71
100% Fixed Income	-0.51	-0.93	2.20	1.98	0.97	1.73

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. For illustrative purposes only. Past performance is no guarantee of future results.** The performance reflects the growth of a hypothetical \$1,000. Assumes all models have been rebalanced monthly. See appendix for allocation information. All performance results are based on performance of indexes with model/back-tested asset allocations; the performance was achieved with the benefit of hindsight; it does not represent actual investment strategies. The index models are unmanaged and the model's performance does not reflect advisory fees or other expenses associated with the management of an actual portfolio. In particular, Model performance may not reflect the impact that economic and market factors may have had on the advisor's decision making if the advisor were actually managing client money. The models are not recommendations for an actual allocation. Indices are not available for direct investment. Backtested performance results assume the reinvestment of dividends and capital gains. Sources: Dimensional Fund Advisors LP for Dimensional Indices. Copyright 2022 S&P Dow Jones Indices LLC, a division of S&P Global. All rights reserved.