03

Quarterly Market Review

Third Quarter 2023





Third quarter 2023

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 concludes with a quarterly topic.



Overview:

Market Summary

World Stock Market Performance

US Stocks

International Developed Stocks

Emerging Markets Stocks

Country Returns

Commodities

Fixed Income

Quarterly Topics:

- DFA Ranks
- 2. When Value Delivers
- 3. Estate Planning Basics
- 4. Debt



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 2023		STO	ВО	BONDS		
	-3.25%	-4.10%	-2.93%	-6.49%	-3.23%	-0.78%
	·	•	•	•	·	•
Since Jan. 2001						
Average Quarterly Return	2.2%	1.5%	2.4%	2.1%	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 © 2023 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 2023, all rights reserved. Bloomberg data provided by Bloomberg.



Long-Term Market Summary

Index returns as of September 30, 2023

	US Stock Market	International Developed Stocks	Emerging Markets Stocks	Global Real Estate	US Bond Market	Global Bond Market ex US	
1 Year		STO	CKS	_	ВОІ	BONDS	
	20.46%	24.00%	24.00% 11.70%		0.64%	2.99%	
5 Years							
	9.14%	3.44%	0.55%	0.01%	0.10%	0.83%	
10 Years							
	11.28%	3.84%	2.07%	3.12%	1.13%	2.30%	

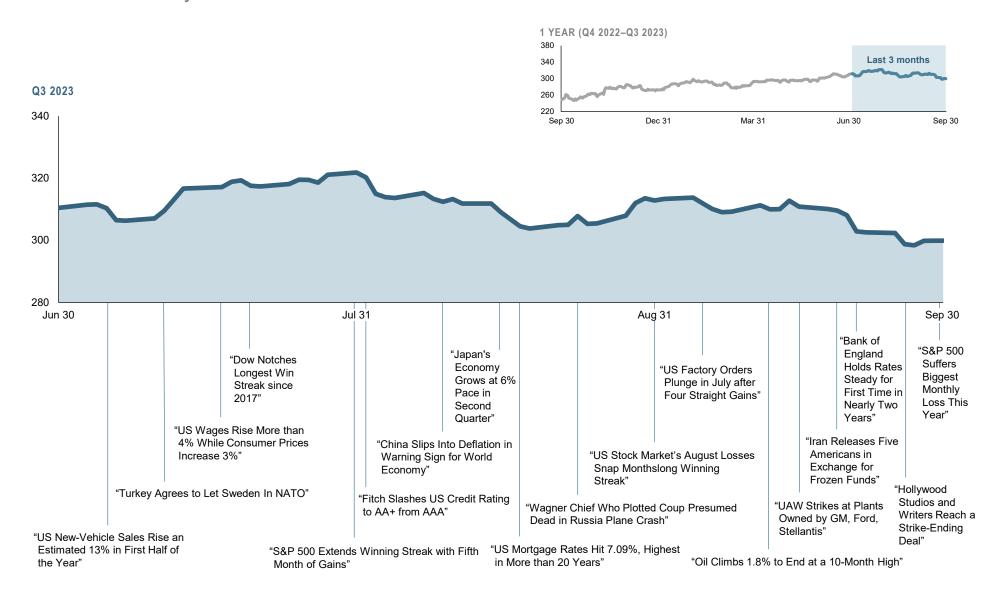
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World Stock Market Performance

MSCI All Country World Index with selected headlines from Q3 2023

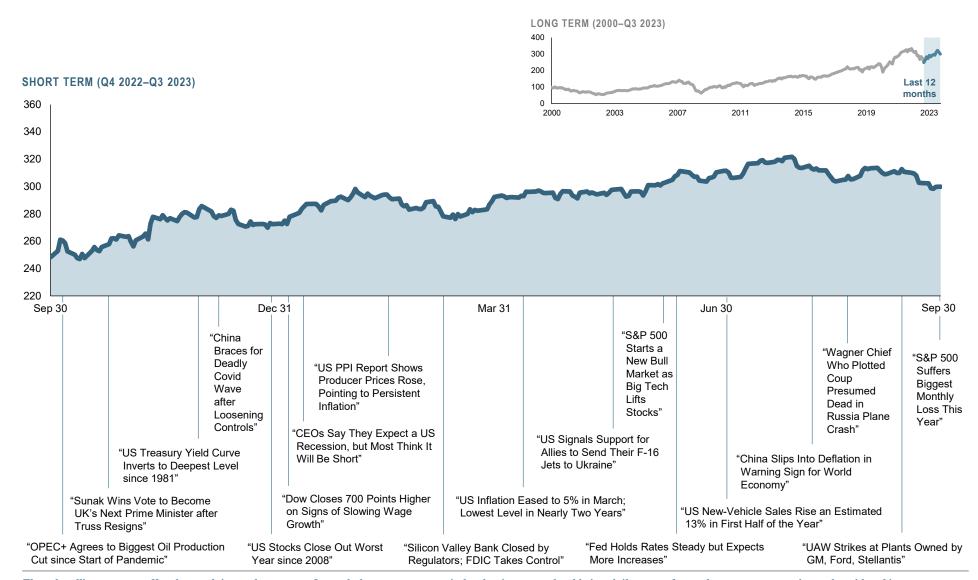


These headlines are not offered to explain market returns. Instead, they serve as a reminder that investors should view daily events from a long-term perspective and avoid making investment decisions based solely on the news.



World Stock Market Performance

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



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US Stocks

Third quarter 2023 index returns

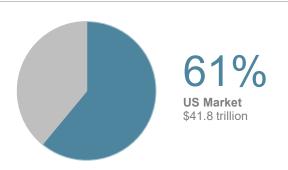
The US equity market posted negative returns for the quarter and outperformed non-US developed markets, but underperformed emerging markets.

Value underperformed growth within large caps and outperformed within small caps.

Small caps underperformed large caps.

REIT indices underperformed equity market indices.

World Market Capitalization—US



Ranked Returns (%)

Small Value	-2.96
Large Growth	-3.13
Large Cap	-3.15
Large Value	-3.16
Marketwide	-3.25
Small Cap	-5.13
Small Growth	-7.32

Period Returns (%)

		Annualized					
Asset Class	QTR	YTD	1 Year	3 Years	5 Years	10 Years	
Small Value	-2.96	-0.53	7.84	13.32	2.59	6.19	
Large Growth	-3.13	24.98	27.72	7.97	12.42	14.48	
Large Cap	-3.15	13.01	21.19	9.53	9.63	11.63	
Large Value	-3.16	1.79	14.44	11.05	6.23	8.45	
Marketwide	-3.25	12.39	20.46	9.38	9.14	11.28	
Small Cap	-5.13	2.54	8.93	7.16	2.40	6.65	
Small Growth	-7.32	5.24	9.59	1.09	1.55	6.72	

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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. MSCI data © MSCI 2023, all rights reserved. Frank Russell Company is the source and owner of the trademarks, service marks, and copyrights related to the Russell Indexes.

International Developed Stocks



Third quarter 2023 index returns

Developed markets outside of the US posted negative returns for the quarter and underperformed both US and emerging markets.

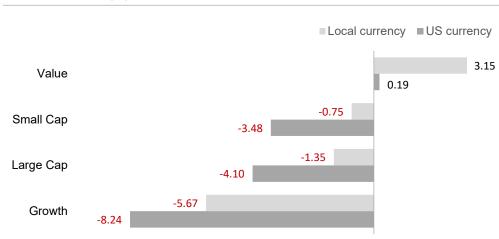
Value outperformed growth.

Small caps outperformed large caps.

World Market Capitalization—International Developed



Ranked Returns (%)



Period Returns (%)

					Annualized	
Asset Class	QTR	YTD	1 Year	3 Years	5 Years	10 Years
Value	0.19	9.13	28.89	11.64	3.05	3.05
Small Cap	-3.48	1.83	17.32	1.85	1.28	4.13
Large Cap	-4.10	6.73	24.00	6.07	3.44	3.84
Growth	-8.24	4.38	19.27	0.47	3.37	4.36

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Market segment (index representation) as follows: Large Cap (MSCI World ex USA Index), Small Cap (MSCI World ex USA Small Cap Index), Value (MSCI World ex USA Value Index), and Growth (MSCI World ex USA Growth Index). All index returns are net of withholding tax on dividends. World Market Cap represented by Russell 3000 Index, MSCI World ex USA IMI Index, and MSCI Emerging Markets IMI Index. MSCI World ex USA IMI Index as the proxy for the International Developed market. MSCI data © MSCI 2023, all rights reserved. Frank Russell Company is the source and owner of the trademarks, service marks, and copyrights related to the Russell Indexes.

Emerging Markets Stocks

Third quarter 2023 index returns

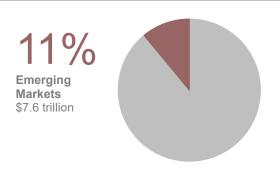


Emerging markets posted negative returns for the quarter and outperformed both US and non-US developed markets.

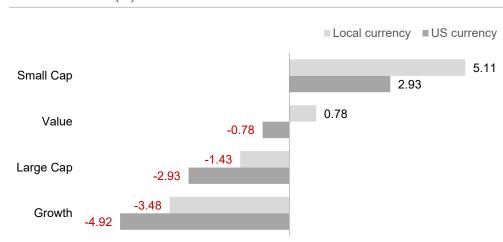
Value outperformed growth.

Small caps outperformed large caps.

World Market Capitalization—Emerging Markets



Ranked Returns (%)



Period Returns (%)

					Annualized	
Asset Class	QTR	YTD	1 Year	3 Years	5 Years	10 Years
Small Cap	2.93	13.74	23.06	10.61	6.45	4.57
Value	-0.78	5.70	16.03	4.40	0.38	1.21
Large Cap	-2.93	1.82	11.70	-1.73	0.55	2.07
Growth	-4.92	-1.76	7.71	-7.19	0.63	2.83

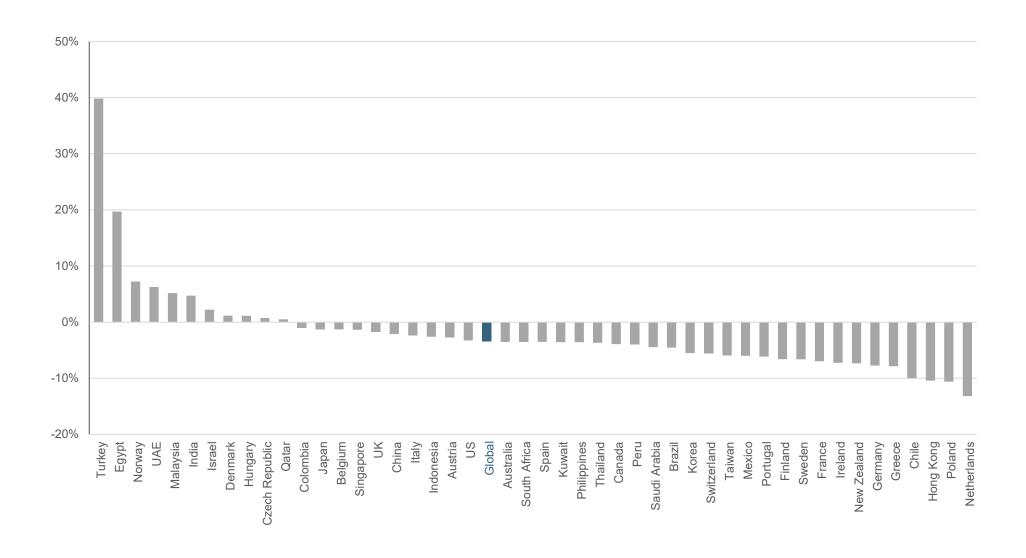
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Country Returns

Third quarter 2023 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. 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 2023, all rights reserved.

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Commodities

Third quarter 2023 index returns

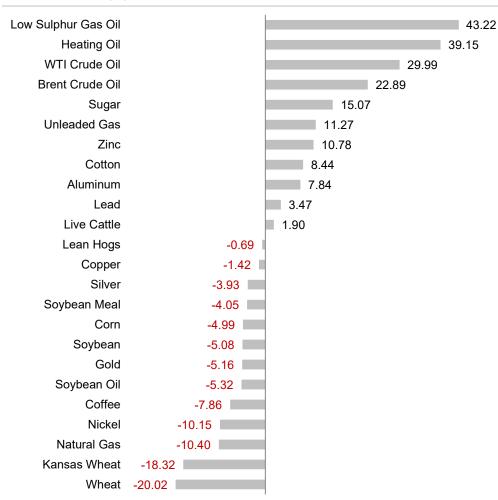
The Bloomberg Commodity Total Return Index returned +4.71% for the third quarter of 2023.

Low Sulphur Gas Oil and Heating Oil were the best performers, returning +43.22% and +39.15% during the quarter, respectively. Wheat and Kansas Wheat were the worst performers, returning -20.02% and -18.32% during the quarter, respectively.

Period Returns (%)

					Annualized	
Asset Class	QTR	YTD	1 Year	3 Years	5 Years	10 Years
Commodities	4 71	-3 44	-1 30	16.23	6 13	-0.75

Ranked Returns (%)



Fixed Income

Third quarter 2023 index returns

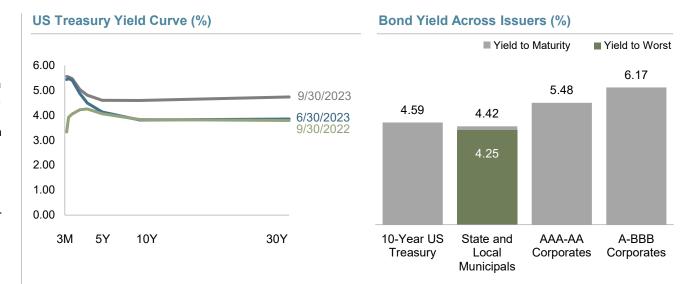
Interest rates increased across all bond maturities in the US Treasury market for the quarter.

On the short end of the yield curve, the 1-Month US Treasury Bill yield increased 31 basis points (bps) to 5.55%, while the 1-Year US Treasury Bill yield increased 6 bps to 5.46%. The yield on the 2-Year US Treasury Note increased 16 bps to 5.03%.

The yield on the 5-Year US Treasury Note increased 47 bps to 4.60%. The yield on the 10-Year US Treasury Note increased 78 bps to 4.59%. The yield on the 30-Year US Treasury Bond increased 88 bps to 4.73%.

In terms of total returns, short-term US treasury bonds returned +0.17% while intermediate-term US treasury bonds returned -0.81%. Short-term corporate bonds returned +0.25% and intermediate-term corporate bonds returned $-0.96\%.^{1}$

The total returns for short- and intermediateterm municipal bonds were -0.94% and -2.96%, respectively. Within the municipal fixed income market, general obligation bonds returned -4.10% while revenue bonds returned -4.04%.2



Period Returns (%)

				Annualized		
Asset Class	QTR	YTD	1 Year	3 Years	5 Years	10 Years
ICE BofA US 3-Month Treasury Bill Index	1.31	3.60	4.47	1.70	1.72	1.11
ICE BofA 1-Year US Treasury Note Index	1.21	2.90	3.68	0.60	1.46	1.00
FTSE World Government Bond Index 1-5 Years (hedged to USD)	0.56	2.10	2.68	-1.05	1.03	1.15
Bloomberg U.S. High Yield Corporate Bond Index	0.46	5.86	10.28	1.76	2.96	4.24
FTSE World Government Bond Index 1-5 Years	-1.01	-0.15	3.68	-3.80	-0.84	-1.00
Bloomberg U.S. TIPS Index	-2.60	-0.78	1.25	-1.98	2.12	1.74
Bloomberg U.S. Aggregate Bond Index	-3.23	-1.21	0.64	-5.21	0.10	1.13
Bloomberg Municipal Bond Index	-3.95	-1.38	2.66	-2.30	1.05	2.29
Bloomberg U.S. Government Bond Index Long	-11.79	-8.50	-9.04	-15.66	-2.78	0.75



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When Value Delivers

Third quarter 2023

Wes Crill, PhD, Senior Investment Director and Vice President, Dimensional Fund Advisors

The first half of 2023 marks the tenth time since 1926 that value stocks have underperformed growth stocks by more than 20 percentage points over a two-quarter period. More often than not, value has responded like the hero in an action movie, beating growth over the following four quarters in seven of the nine previous instances and averaging a cumulative outperformance of nearly 29 percentage points.

The sample size may be small, but a positive average value premium following a large negative period is not too surprising. In fact, looking at the other side of the value performance distribution, there have been 19 two-quarter periods with the value premium exceeding positive 20%. In 11 of these, value outperformance continued over the next four quarters. The average premium across all 19 was 3.6%.

It's notoriously challenging to find an indicator that consistently predicts negative value premiums. Regardless of value's recent performance, investors should expect positive value premiums going forward. That's a strong incentive for investors to maintain a disciplined stance to asset allocation, so they can capture the outperformance when value stocks deliver.

Comeback Kid

Cumulative return difference for value minus growth in US stocks over the four quarters following two-quarter periods during which value underperformed by -20% or outperformed by +20%.



See following page for important disclosure.

When Value Delivers—Disclosures



(continued from page 15)

Past performance is no guarantee of future results.

In USD. July 1926—June 2023. Quarterly returns for value and growth based on the Fama/French US Value Research Index and the Fama/French US Growth Research Index, respectively. Data provided by Fama/French. The Fama/French indices represent academic concepts that may be used in portfolio construction and are not available for direct investment or for use as a benchmark. Index returns are not representative of actual portfolios and do not reflect costs and fees associated with an actual investment. See "Index Descriptions" for descriptions of the Fama/French index data.

Index Descriptions: Fama/French US Value Research Index: Provided by Fama/French from CRSP securities data. Includes the lower 30% in price-to-book of NYSE securities (plus NYSE Amex equivalents since July 1962 and Nasdaq equivalents since 1973). Fama/French US Growth Research Index: Provided by Fama/French from CRSP securities data. Includes the higher 30% in price-to-book of NYSE securities (plus NYSE Amex equivalents since July 1962 and Nasdaq equivalents since 1973).

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<u>Wills -</u> A basic will is a legal document that outlines how a person's assets and property should be distributed after their death. It names an executor and beneficiaries and may specify guardianship for minor children. Legal requirements vary by jurisdiction.

Revocable Trust - A revocable trust is a flexible estate planning tool that allows individuals to manage and distribute their assets during their lifetime and after death. It can be altered or revoked by the grantor, offers privacy, and helps avoid probate.

<u>Irrevocable Trust -</u> An irrevocable trust is a legal arrangement where assets are transferred to a trustee and cannot be altered or revoked without beneficiary consent. It provides tax benefits, asset protection, and can minimize estate tax liability, but sacrifices control over the assets.

IRA Beneficiaries - An IRA beneficiary is an individual or entity designated to inherit an Individual Retirement Account upon the owner's death. Beneficiaries can be family members, trusts, or charities, and the choice can impact tax implications and distribution rules.

<u>Transfer on Death (For Taxable account) - Transfer on Death (TOD) accounts are financial arrangements allowing assets to transfer directly to named beneficiaries upon the owner's death, bypassing probate. Common for brokerage accounts and real estate, TOD accounts provide easy asset distribution and can simplify estate planning.</u>

<u>Take Action - Set Goals, Set Expectations, Gather Documents, Meet with Professionals.</u>



Debt: Housing, Cars, Interest rates, and Finance

Housing – Interest rate changes - Housing interest rate increases have significant implications for the real estate market. When interest rates rise, it becomes more expensive to borrow money for home purchases. This often leads to reduced affordability for potential buyers, resulting in a slowdown in home sales. Additionally, higher interest rates can put downward pressure on home prices, potentially leading to decreased property values. Existing homeowners with adjustable-rate mortgages may experience higher monthly payments, affecting their financial stability. On the positive side, rising interest rates may discourage speculative real estate investment, contributing to more stable and sustainable housing markets in the long run, but the short-term effects can be challenging for homebuyers and sellers.

Cars – Buy or Lease - Car ownership and leasing offer distinct advantages and considerations. Ownership provides full control and allows customization, but entails higher upfront costs, depreciation, and long-term maintenance. Leasing offers lower initial payments, newer vehicles, and less maintenance responsibility, but mileage restrictions, limited customization, and ongoing payments. The choice depends on individual preferences and financial circumstances. If you value vehicle ownership, intend to keep the car long-term, and have the means for financing, buying may be preferred. Leasing can be suitable for those desiring lower monthly expenses, frequently upgrading to new models, and not exceeding mileage limits. Both options have merits depending on personal needs.