

Education > Diversification

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# Asset Class Return Quilts

3Q, 2024

# Calendar Year and Trailing Total Returns

3Q, 2024

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	YTD	10 Years
US REITs 30.4%	US REITs 2.5%	US Small Cap 21.3%	EM Stocks 37.3%	Cash 1.8%	US Large Cap 31.4%	Gold 24.2%	US REITs 43.1%	Midstrm Energy 30.9%	Midstrm Energy 26.6%	Gold 28.5%	US Large Cap 13.1%
US Large Cap 13.2%	Muni Bonds 2.4%	Midstrm Energy 18.3%	Ex-US REITs 26.6%	Muni Bonds 1.6%	US REITs 25.8%	US Large Cap 21.0%	Midstrm Energy 40.2%	Commodities 16.1%	US Large Cap 26.5%	US Large Cap 21.2%	US Small Cap 8.8%
US Int-T Bnds 6.0%	EM Bonds 1.3%	US High Yield 17.1%	Intl Dev Stcks 25.0%	US Int-T Bnds 0.0%	US Small Cap 25.5%	US Small Cap 20.0%	Commodities 27.1%	Cash 1.5%	Intl Dev Stcks 18.2%	Midstrm Energy 18.6%	Gold 8.2%
US Small Cap 4.9%	US Large Cap 0.9%	US Large Cap 12.1%	US Large Cap 21.7%	Gold -1.1%	Intl Dev Stcks 22.0%	EM Stocks 18.3%	US Large Cap 26.5%	Gold -0.4%	US Small Cap 16.9%	EM Stocks 16.9%	US REITs 7.8%
Midstrm Energy 4.8%	US Int-T Bnds 0.5%	Commodities 11.8%	Global 60/40 17.4%	US High Yield -2.1%	Ex-US REITs 21.9%	Global 60/40 13.6%	US Small Cap 14.8%	Muni Bonds -4.8%	Global 60/40 16.1%	US REITs 15.8%	Global 60/40 6.4%
EM Bonds 4.8%	Cash 0.0%	EM Stocks 11.2%	US Small Cap 14.6%	Intl Dev Bnds -2.3%	Global 60/40 19.2%	Intl Dev Bnds 11.2%	Intl Dev Stcks 11.3%	US High Yield -11.2%	Gold 13.8%	Intl Dev Stcks 13.0%	Intl Dev Stcks 5.7%
Muni Bonds 4.7%	Intl Dev Stcks -0.8%	EM Bonds 9.9%	Gold 11.9%	EM Bonds -2.5%	Gold 18.8%	Intl Dev Stcks 7.8%	Global 60/40 10.1%	US Int-T Bnds -13.0%	US REITs 13.7%	Global 60/40 12.6%	US High Yield 5.0%
Ex-US REITs 3.4%	Ex-US REITs -1.8%	Gold 9.1%	Intl Dev Bnds 11.3%	US REITs -4.6%	EM Stocks 18.4%	US Int-T Bnds 7.5%	Ex-US REITs 5.7%	Intl Dev Stcks -14.5%	US High Yield 13.4%	Ex-US REITs 11.5%	EM Stocks 4.0%
Global 60/40 2.5%	Global 60/40 -2.4%	US REITs 8.6%	EM Bonds 8.2%	US Large Cap -4.8%	US High Yield 14.3%	US High Yield 7.1%	US High Yield 5.3%	EM Bonds -15.3%	EM Stocks 9.8%	US Small Cap 11.2%	EM Bonds 3.2%
US High Yield 2.5%	US Small Cap -4.4%	Global 60/40 6.0%	US High Yield 7.5%	Global 60/40 -5.7%	EM Bonds 13.1%	EM Bonds 6.5%	Muni Bonds 0.5%	Global 60/40 -16.0%	EM Bonds 9.1%	EM Bonds 8.2%	Ex-US REITs 2.6%
Cash 0.0%	US High Yield -4.5%	US Int-T Bnds 2.6%	US REITs 5.1%	Ex-US REITs -9.4%	US Int-T Bnds 8.7%	Muni Bonds 4.2%	Cash 0.0%	US Large Cap -19.1%	Ex-US REITs 6.7%	US High Yield 8.0%	Muni Bonds 2.0%
Gold -0.2%	Intl Dev Bnds -6.6%	Ex-US REITs 2.0%	US Int-T Bnds 3.5%	US Small Cap -11.0%	Commodities 7.7%	Cash 0.5%	US Int-T Bnds -1.5%	EM Stocks -20.1%	Intl Dev Bnds 6.0%	Commodities 5.9%	US Int-T Bnds 1.8%
Intl Dev Bnds -2.1%	Gold -11.4%	Intl Dev Bnds 1.6%	Muni Bonds 3.5%	Commodities -11.2%	Midstrm Energy 6.6%	Commodities -3.1%	EM Bonds -1.7%	US Small Cap -20.4%	US Int-T Bnds 5.5%	US Int-T Bnds 4.4%	Midstrm Energy 1.8%
EM Stocks -2.2%	EM Stocks -14.9%	Intl Dev Stcks 1.0%	Commodities 1.7%	Midstrm Energy -12.4%	Muni Bonds 5.6%	Ex-US REITs -6.8%	EM Stocks -2.5%	Intl Dev Bnds -21.8%	Cash 5.1%	Cash 4.1%	Cash 1.6%
Intl Dev Stcks -4.9%	Commodities -24.7%	Cash 0.3%	Cash 0.8%	Intl Dev Stcks -13.8%	Intl Dev Bnds 4.6%	US REITs -7.6%	Gold -3.8%	Ex-US REITs -22.2%	Muni Bonds 4.6%	Muni Bonds 1.9%	Commodities 0.0%
Commodities -17.0%	Midstrm Energy -32.6%	Muni Bonds -0.1%	Midstrm Energy -6.5%	EM Stocks -14.6%	Cash 2.2%	Midstrm Energy -28.7%	Intl Dev Bnds -9.5%	US REITs -24.5%	Commodities -7.9%	Intl Dev Bnds 1.3%	Intl Dev Bnds -1.2%

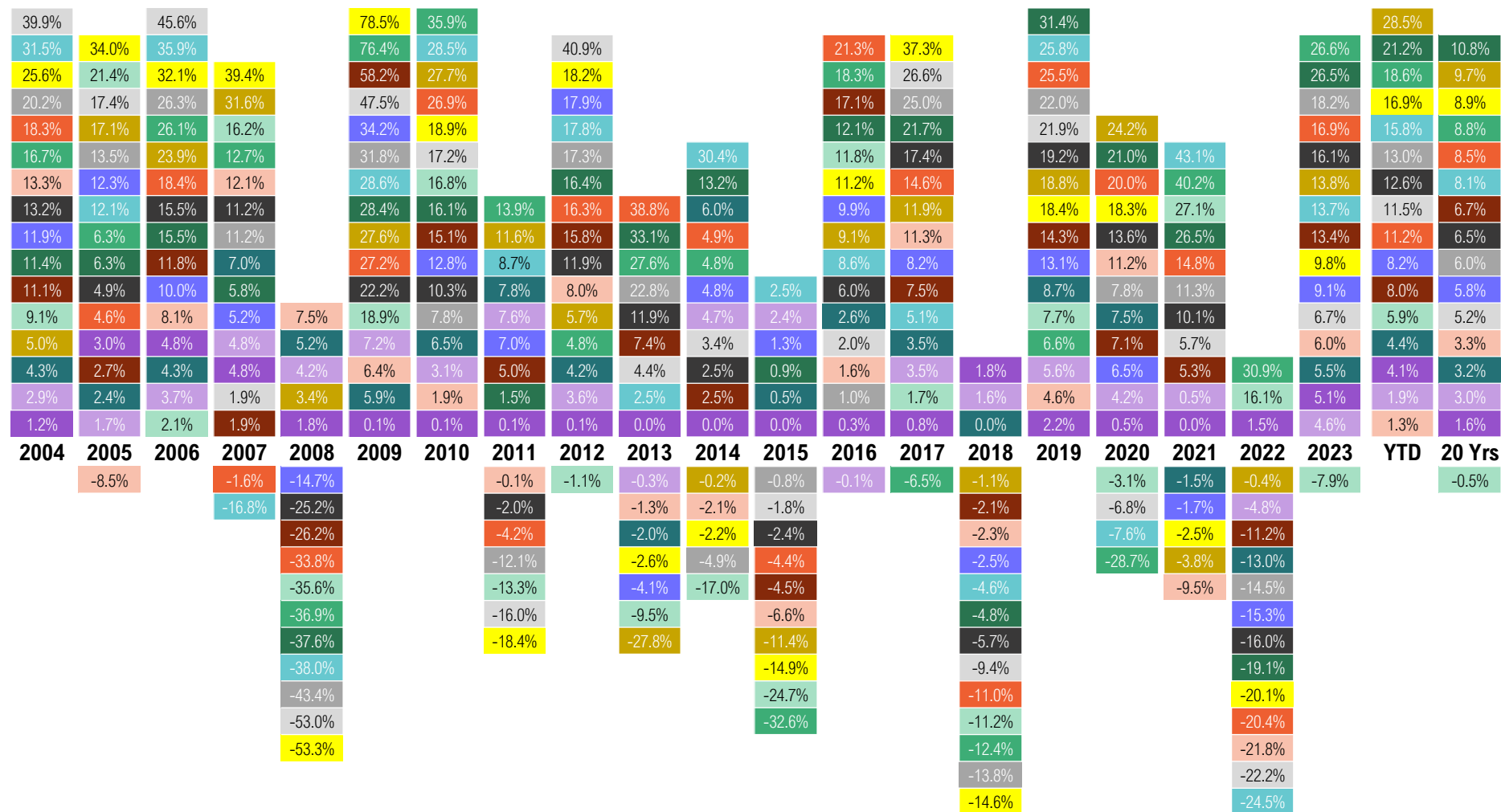
- Global 60/40
- U.S. Large Cap
- U.S. Small Cap
- Intl Dev Stcks
- Emerging Stocks
- Municipal Bonds
- U.S Int-Term Bonds
- U.S. High Yield Bds
- Intl Dev Bnds
- Emerging Bonds
- U.S. REITs
- Ex-U.S. Real Est.
- Commodities
- Gold
- Midstream Energy
- Cash

Source: Bloomberg and Morningstar. See disclosures for asset class, index and portfolio definitions. Returns are gross of fees. Returns for periods longer than one year are annualized. It is not possible to invest directly in an index.

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# Calendar Year and Trailing Total Returns

3Q, 2024



- Global 60/40
- U.S. Large Cap
- U.S. Small Cap
- Intl Dev Stocks
- Emerging Stocks
- Municipal Bonds
- U.S Int-Term Bonds
- U.S. High Yield Bds
- Intl Dev Bonds
- Emerging Bonds
- U.S. REITs
- Ex-U.S. Real Est.
- Commodities
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# Calendar Decade and Trailing Total Returns

3Q, 2024

1920s	1930s	1940s	1950s	1960s	1970s	1980s	1990s	2000s	2010s	2020s*	100 Yrs
U.S. Large Cap 14.2%	U.S. Small Cap 5.8%	U.S. Small Cap 25.4%	U.S. Large Cap 16.2%	U.S. Small Cap 13.7%	Gold 31.8%	Intl Dev Stocks 16.2%	U.S. Large Cap 17.5%	Midstrm Energy 18.3%	U.S. Large Cap 13.9%	Midstrm Energy 31.0%	Midstrm Energy 11.7%
EM Stocks 12.1%	Gbl Mkt Port 5.6%	Midstrm Energy 18.8%	Intl Dev Stocks 16.0%	EM Stocks 12.4%	Commodities 19.5%	U.S. 60/40 14.0%	U.S. Small Cap 15.5%	Gold 17.9%	U.S. Small Cap 11.2%	U.S. Large Cap 13.8%	U.S. Small Cap 11.4%
Intl Dev Stocks 11.6%	U.S. Muni Bds 5.4%	U.S. Large Cap 13.4%	Midstrm Energy 14.5%	Midstrm Energy 10.3%	U.S. Small Cap 17.4%	U.S. Large Cap 13.9%	U.S. 60/40 13.8%	EM Stocks 15.9%	U.S. 60/40 10.1%	Commodities 10.2%	U.S. Large Cap 10.8%
U.S. 60/40 11.3%	Intl Dev Bonds 5.3%	Commodities 12.4%	U.S. Small Cap 12.8%	U.S. Large Cap 9.0%	Midstrm Energy 16.7%	U.S. Interm Bds 13.1%	Midstrm Energy 12.7%	U.S. REITs 10.6%	U.S. REITs 8.3%	U.S. REITs 9.9%	Intl Dev Stocks 9.0%
Gbl Mkt Port 9.9%	Gold 5.3%	U.S. HY Bonds 11.0%	U.S. 60/40 10.4%	Intl Dev Stocks 8.1%	U.S. REITs 12.4%	Midstrm Energy 12.6%	U.S. HY Bonds 11.2%	U.S. HY Bonds 8.9%	U.S. HY Bonds 6.8%	Gold 9.4%	U.S. 60/40 8.9%
Intl Dev Bonds 9.8%	U.S. 60/40 4.8%	U.S. 60/40 9.0%	U.S. REITs 10.3%	U.S. 60/40 6.8%	Intl Dev Stocks 11.2%	Gbl Mkt Port 12.5%	Gbl Mkt Port 9.7%	Gbl Mkt Port 7.4%	Gbl Mkt Port 5.9%	U.S. 60/40 7.6%	Gbl Mkt Port 7.7%
Midstrm Energy 8.3%	U.S. Interm Bds 4.1%	Intl Dev Stocks 8.7%	Gbl Mkt Port 7.2%	Gbl Mkt Port 6.5%	Gbl Mkt Port 10.8%	U.S. HY Bonds 12.0%	EM Stocks 9.4%	Intl Dev Bonds 7.4%	Intl Dev Stocks 5.5%	Intl Dev Stocks 6.6%	EM Stocks 6.7%
U.S. Interm Bds 5.8%	Intl Dev Stocks 3.9%	Gbl Mkt Port 5.6%	U.S. HY Bonds 3.7%	Commodities 5.0%	Intl Dev Bonds 10.7%	Intl Dev Bonds 11.7%	Intl Dev Stocks 8.2%	U.S. Small Cap 6.3%	U.S. Interm Bds 3.8%	U.S. Small Cap 4.7%	U.S. HY Bonds 6.6%
U.S. HY Bonds 5.4%	U.S. HY Bonds 2.7%	U.S. REITs 3.3%	Cash 2.2%	Cash 4.4%	U.S. Large Cap 8.5%	U.S. Muni Bds 9.5%	U.S. Interm Bds 8.0%	Commodities 5.8%	EM Stocks 3.6%	Gbl Mkt Port 2.9%	U.S. REITs 6.3%
U.S. Muni Bds 5.2%	Commodities 2.1%	U.S. Interm Bds 2.0%	Intl Dev Bonds 2.1%	Intl Dev Bonds 3.5%	EM Stocks 7.8%	Cash 8.7%	U.S. REITs 6.8%	U.S. Interm Bds 5.8%	U.S. Muni Bds 3.3%	Cash 2.9%	Gold 5.0%
U.S. REITs 5.0%	EM Stocks 2.0%	EM Stocks 1.8%	EM Stocks 1.8%	U.S. REITs 3.4%	U.S. 60/40 7.5%	U.S. Small Cap 8.5%	U.S. Muni Bds 6.6%	U.S. Muni Bds 4.6%	Gold 3.0%	U.S. HY Bonds 2.1%	Intl Dev Bonds 4.9%
Cash 3.6%	U.S. Large Cap 1.8%	Gold 1.6%	U.S. Interm Bds 1.6%	U.S. HY Bonds 3.2%	Cash 7.0%	EM Stocks 7.9%	Intl Dev Bonds 6.3%	U.S. 60/40 3.7%	Intl Dev Bonds 2.0%	U.S. Muni Bds 0.5%	U.S. Interm Bds 4.8%
U.S. Small Cap 3.3%	Midstrm Energy 1.3%	U.S. Muni Bds 1.5%	U.S. Muni Bds 0.8%	U.S. Interm Bds 3.0%	U.S. HY Bonds 5.1%	U.S. REITs 6.6%	Commodities 6.3%	Intl Dev Stocks 3.5%	Cash 0.6%	EM Stocks 0.0%	Commodities 4.4%
Gold 0.0%	Cash 0.4%	Cash 0.6%	Gold -1.0%	U.S. Muni Bds 2.5%	U.S. Interm Bds 5.0%	Commodities 4.2%	Cash 4.9%	Cash 2.3%	Midstrm Energy -2.3%	U.S. Interm Bds -1.5%	U.S. Muni Bds 3.8%
Commodities -1.1%	U.S. REITs -3.7%	Intl Dev Bonds -1.3%	Commodities -1.6%	Gold 0.2%	U.S. Muni Bds 1.6%	Gold -4.0%	Gold -3.5%	U.S. Large Cap 1.4%	Commodities -6.5%	Intl Dev Bonds -5.1%	Cash 3.4%

- U.S. 60/40
- Global Market Portfolio
- U.S. Large Cap
- U.S. Small Cap
- Intl Dev Stocks
- Emerging Stocks
- U.S. Municipal Bonds
- U.S Int-Term Bonds
- U.S. High Yield Bds
- Intl Dev Bonds
- U.S. REITs
- Commodities
- Gold
- Midstream Energy
- Cash

Source: Bloomberg, Morningstar, SpringTide, Ibbotson Associates, MSCI, Alerian, LBMA. See disclosures for asset class, index and portfolio definitions. Returns are gross of fees. Returns for periods longer than one year are annualized. It is not possible to invest directly in an index. \* Returns presented are for the decade to date. As of 9/30/2024.

# Calendar Year and Trailing Total Returns

3Q, 2024

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	YTD	10 Years
Real Estate 30.2%	Cons Disc 10.1%	Energy 27.4%	Technology 38.8%	Health Care 6.5%	Technology 50.3%	Technology 43.9%	Energy 54.6%	Energy 65.7%	Technology 57.8%	Utilities 30.6%	Technology 22.4%
Utilities 29.0%	Health Care 6.9%	CommServ 23.5%	Materials 23.8%	Utilities 4.1%	CommServ 32.7%	Cons Disc 33.3%	Real Estate 46.2%	Utilities 1.6%	CommServ 55.8%	Technology 30.3%	S&P 500 13.4%
Health Care 25.3%	ConsStaples 6.6%	Financials 22.8%	Cons Disc 23.0%	Cons Disc 0.8%	Financials 32.1%	CommServ 23.6%	Financials 35.0%	ConsStaples -0.6%	Cons Disc 42.4%	CommServ 28.8%	Cons Disc 13.1%
Technology 20.1%	Technology 5.9%	Industrials 18.9%	Financials 22.2%	Technology -0.3%	S&P 500 31.5%	Materials 20.7%	Technology 34.5%	Health Care -2.0%	S&P 500 26.3%	S&P 500 22.1%	Industrials 11.7%
ConsStaples 16.0%	Real Estate 4.7%	Materials 16.7%	Health Care 22.1%	Real Estate -2.2%	Industrials 29.4%	S&P 500 18.4%	S&P 500 28.7%	Industrials -5.5%	Industrials 18.1%	Financials 21.9%	Financials 11.5%
Financials 15.2%	CommServ 3.4%	Utilities 16.3%	S&P 500 21.8%	S&P 500 -4.4%	Real Estate 29.0%	Health Care 13.4%	Materials 27.3%	Financials -10.5%	Materials 12.5%	Industrials 20.2%	Health Care 11.1%
S&P 500 13.7%	S&P 500 1.4%	Technology 13.8%	Industrials 21.0%	ConsStaples -8.4%	Cons Disc 27.9%	Industrials 11.1%	Health Care 26.1%	Materials -12.3%	Real Estate 12.4%	ConsStaples 18.7%	Utilities 10.4%
Industrials 9.8%	Financials -1.5%	S&P 500 12.0%	ConsStaples 13.5%	CommServ -12.5%	ConsStaples 27.6%	ConsStaples 10.7%	Cons Disc 24.4%	S&P 500 -18.1%	Financials 12.1%	Health Care 14.4%	CommServ 9.8%
Cons Disc 9.7%	Industrials -2.5%	Cons Disc 6.0%	Utilities 12.1%	Financials -13.0%	Utilities 26.3%	Utilities 0.5%	CommServ 21.6%	Real Estate -26.1%	Health Care 2.1%	Real Estate 14.3%	ConsStaples 9.6%
Materials 6.9%	Utilities -4.8%	ConsStaples 5.4%	Real Estate 10.8%	Industrials -13.3%	Materials 24.6%	Financials -1.7%	Industrials 21.1%	Technology -28.2%	ConsStaples 0.5%	Materials 14.1%	Materials 9.1%
CommServ 3.0%	Materials -8.4%	Real Estate 3.4%	Energy -1.0%	Materials -14.7%	Health Care 20.8%	Real Estate -2.2%	ConsStaples 18.6%	Cons Disc -37.0%	Energy -1.3%	Cons Disc 13.9%	Real Estate 8.9%
Energy -7.8%	Energy -21.1%	Health Care -2.7%	CommServ -1.3%	Energy -18.1%	Energy 11.8%	Energy -33.7%	Utilities 17.7%	CommServ -39.9%	Utilities -7.1%	Energy 8.4%	Energy 4.0%

- S&P 500
- Materials
- Real Estate
- Consumer Discretionary
- Financials
- Industrials
- Communication Services
- Energy
- Health Care
- Utilities
- Technology
- Consumer Staples

Source: Bloomberg and Morningstar. See disclosures for asset class, index and portfolio definitions. Returns are gross of fees. Returns for periods longer than one year are annualized. It is not possible to invest directly in an index.

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# Calendar Year and Trailing Total Returns

3Q, 2024

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	YTD	10 Years
Defensives 20.4%	Momentum 9.3%	Small Cap 21.3%	Momentum 37.8%	Min Vol 1.5%	High Quality 39.1%	Momentum 29.6%	Defensives 30.3%	Defensives 14.2%	Cyclicals 39.1%	Momentum 30.5%	High Quality 15.6%
Min Vol 16.5%	High Quality 7.0%	Value 16.9%	Cyclicals 27.3%	Momentum -1.6%	Cyclicals 36.3%	Cyclicals 27.8%	Large Cap 28.7%	High Dividnd -3.8%	High Quality 36.3%	High Quality 24.8%	Cyclicals 15.3%
High Dividnd 14.9%	Min Vol 5.6%	High Dividnd 16.3%	High Quality 26.0%	High Dividnd -2.3%	Large Cap 31.5%	High Quality 22.9%	Cyclicals 27.6%	Value -6.2%	Large Cap 26.3%	Cyclicals 23.6%	Momentum 13.7%
Momentum 14.7%	Cyclicals 2.6%	Cyclicals 14.0%	Large Cap 21.8%	High Quality -2.6%	Momentum 28.1%	Small Cap 20.0%	High Quality 27.6%	Min Vol -9.2%	Small Cap 16.9%	Large Cap 22.1%	Large Cap 13.4%
Large Cap 13.7%	Large Cap 1.4%	Defensives 14.0%	High Dividnd 19.5%	Defensives -4.3%	Min Vol 28.0%	Large Cap 18.4%	Value 27.2%	Momentum -17.4%	Min Vol 9.8%	Min Vol 18.7%	Min Vol 11.5%
Cyclicals 13.6%	High Dividnd 0.7%	Large Cap 12.0%	Min Vol 19.2%	Large Cap -4.4%	Value 25.7%	Min Vol 5.8%	High Dividnd 21.9%	Large Cap -18.1%	Momentum 9.5%	Defensives 18.5%	High Dividnd 10.0%
Value 12.3%	Value -1.9%	Min Vol 10.7%	Value 15.4%	Cyclicals -5.3%	Small Cap 25.5%	High Dividnd 1.7%	Min Vol 21.0%	Small Cap -20.4%	Value 9.2%	Value 17.9%	Value 9.5%
High Quality 11.8%	Defensives -2.6%	High Quality 8.0%	Small Cap 14.6%	Value -7.2%	High Dividnd 22.5%	Value 0.9%	Small Cap 14.8%	High Quality -22.7%	High Dividnd 6.8%	High Dividnd 16.5%	Defensives 9.4%
Small Cap 4.9%	Small Cap -4.4%	Momentum 5.1%	Defensives 9.1%	Small Cap -11.0%	Defensives 21.8%	Defensives -2.9%	Momentum 12.9%	Cyclicals -27.2%	Defensives -0.9%	Small Cap 11.2%	Small Cap 8.8%

- Large Cap
- Momentum
- Minimum Volatility
- High Quality
- Value
- High Dividend
- Small Cap
- Cyclicals
- Defensives

Source: Bloomberg and Morningstar. See disclosures for asset class, index and portfolio definitions. Returns are gross of fees. Returns for periods longer than one year are annualized. It is not possible to invest directly in an index.

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# Calendar Year and Trailing Total Returns

3Q, 2024

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	YTD	10 Years
IG Corp 7.5%	Municipal 2.4%	HY Corp 17.1%	Ex-US Dev 11.3%	ABS 1.8%	IG Corp 14.5%	Ex-US Dev 11.2%	Bank Loan 5.4%	Bank Loan -1.1%	HY Corp 13.4%	Emerging 8.2%	HY Corp 5.0%
MBS 6.1%	MBS 1.5%	Emerging 9.9%	Emerging 8.2%	Municipal 1.6%	HY Corp 14.3%	IG Corp 9.9%	HY Corp 5.3%	ABS -4.3%	Bank Loan 13.0%	HY Corp 8.0%	Bank Loan 4.9%
US Agg 6.0%	Emerging 1.3%	Bank Loan 9.9%	HY Corp 7.5%	Bank Loan 1.1%	Emerging 13.1%	Govt 7.9%	Municipal 0.5%	Municipal -4.8%	Emerging 9.1%	Bank Loan 6.6%	Emerging 3.2%
Govt 4.9%	ABS 1.2%	IG Corp 6.1%	IG Corp 6.4%	MBS 1.0%	US Agg 8.7%	US Agg 7.5%	ABS -0.3%	HY Corp -11.2%	IG Corp 8.5%	IG Corp 5.3%	IG Corp 2.9%
Emerging 4.8%	Govt 0.9%	US Agg 2.6%	Bank Loan 4.2%	Govt 0.9%	Bank Loan 8.2%	HY Corp 7.1%	IG Corp -1.0%	MBS -11.8%	Ex-US Dev 6.0%	ABS 5.1%	ABS 2.2%
Municipal 4.7%	US Agg 0.5%	ABS 2.0%	US Agg 3.5%	US Agg 0.0%	Govt 6.8%	Emerging 6.5%	MBS -1.0%	Govt -12.3%	ABS 5.5%	MBS 4.5%	Municipal 2.0%
HY Corp 2.5%	Bank Loan -0.4%	MBS 1.7%	Municipal 3.5%	HY Corp -2.1%	MBS 6.4%	ABS 4.5%	US Agg -1.5%	US Agg -13.0%	US Agg 5.5%	US Agg 4.4%	US Agg 1.8%
Bank Loan 2.1%	IG Corp -0.7%	Ex-US Dev 1.6%	MBS 2.5%	Ex-US Dev -2.3%	Municipal 5.6%	Municipal 4.2%	Emerging -1.7%	Emerging -15.3%	MBS 5.0%	Govt 3.8%	MBS 1.4%
ABS 1.9%	HY Corp -4.5%	Govt 1.0%	Govt 2.3%	Emerging -2.5%	Ex-US Dev 4.6%	MBS 3.9%	Govt -2.3%	IG Corp -15.8%	Municipal 4.6%	Municipal 1.9%	Govt 1.4%
Ex-US Dev -2.1%	Ex-US Dev -6.6%	Municipal -0.1%	ABS 1.6%	IG Corp -2.5%	ABS 4.5%	Bank Loan 2.8%	Ex-US Dev -9.5%	Ex-US Dev -21.8%	Govt 4.1%	Ex-US Dev 1.3%	Ex-US Dev -1.2%

- U.S. Aggregate Bond
- Emerging Markets
- MBS
- ABS
- IG Corporate
- Municipal
- Government
- Ex-U.S. Developed
- High Yield Corporate
- Bank Loans

Source: Bloomberg and Morningstar. See disclosures for asset class, index and portfolio definitions. Returns are gross of fees. Returns for periods longer than one year are annualized. It is not possible to invest directly in an index.

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# Calendar Year and Trailing Total Returns

3Q, 2024

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	YTD	10 Years
Coffee 37.8%	Sugar -4.7%	Zinc 57.5%	Aluminum 31.2%	Wheat 3.5%	Unleaded Gas 44.5%	Silver 42.5%	Unleaded Gas 69.6%	Unleaded Gas 48.7%	Coffee 25.1%	Coffee 56.2%	Gold 8.2%
Live Cattle 22.1%	Gold -11.4%	Sugar 22.8%	Zinc 29.7%	Live Cattle 2.6%	WTI Crude 34.4%	Soybeans 32.2%	Coffee 63.7%	Nickel 46.7%	Sugar 19.4%	Silver 30.0%	Silver 5.0%
Nickel 7.3%	Unleaded Gas -12.6%	Copper 15.7%	Copper 29.2%	Natural Gas -0.1%	Nickel 32.6%	Gold 24.2%	WTI Crude 61.6%	Soybeans 28.9%	Gold 13.8%	Gold 28.5%	Zinc 4.8%
Zinc 3.5%	Silver -12.7%	Soybeans 14.8%	Nickel 25.6%	Gold -1.1%	Gold 18.8%	Copper 23.3%	Aluminum 39.0%	WTI Crude 24.9%	Live Cattle 10.5%	Copper 19.4%	Copper 4.2%
Gold -0.2%	Live Cattle -14.3%	Silver 14.0%	Gold 11.9%	Corn -4.6%	Silver 13.9%	Zinc 18.6%	Corn 34.4%	Corn 23.0%	Unleaded Gas 7.6%	Sugar 17.2%	Soybeans 3.4%
Aluminum -3.1%	Soybeans -14.6%	Nickel 11.8%	Live Cattle 9.1%	Silver -10.2%	Coffee 12.2%	Nickel 16.6%	Natural Gas 28.0%	Natural Gas 19.4%	Copper 4.7%	Zinc 15.8%	Sugar 2.2%
Soybeans -5.5%	Corn -19.2%	Commodities 11.8%	Silver 5.8%	Commodities -11.2%	Wheat 9.4%	Corn 12.9%	Zinc 28.0%	Commodities 16.1%	Soybeans 2.0%	Live Cattle 15.3%	Unleaded Gas 1.4%
Wheat -9.4%	Wheat -22.2%	Natural Gas 10.3%	WTI Crude 5.1%	Soybeans -11.7%	Commodities 7.7%	Sugar 10.6%	Commodities 27.1%	Sugar 12.2%	Silver -0.3%	Aluminum 8.2%	Aluminum 0.9%
Corn -13.3%	Aluminum -22.9%	Aluminum 9.7%	Unleaded Gas 2.8%	Nickel -16.4%	Copper 7.3%	Wheat 10.3%	Copper 27.0%	Live Cattle 4.7%	Aluminum -1.1%	Commodities 5.9%	Nickel 0.3%
Copper -16.6%	Commodities -24.7%	Gold 9.1%	Commodities 1.7%	Aluminum -16.9%	Sugar 1.9%	Aluminum 3.9%	Nickel 25.1%	Silver 2.6%	WTI Crude -2.0%	Nickel 5.1%	Commodities 0.0%
Commodities -17.0%	Copper -25.1%	WTI Crude 7.1%	Soybeans -8.1%	WTI Crude -20.5%	Live Cattle 1.2%	Commodities -3.1%	Sugar 22.7%	Gold -0.4%	Zinc -6.1%	WTI Crude 5.0%	Live Cattle -0.3%
Silver -20.4%	Zinc -28.0%	Unleaded Gas 6.4%	Corn -12.1%	Copper -21.2%	Soybeans -0.6%	Coffee -9.5%	Wheat 14.1%	Wheat -2.7%	Commodities -7.9%	Unleaded Gas 0.6%	Corn -1.1%
Natural Gas -30.7%	Coffee -31.5%	Coffee -1.3%	Wheat -12.5%	Zinc -21.4%	Zinc -1.2%	Live Cattle -17.9%	Soybeans 8.3%	Zinc -10.5%	Corn -17.6%	Wheat -12.9%	Coffee -1.1%
Sugar -30.9%	Natural Gas -39.9%	Live Cattle -7.4%	Coffee -16.0%	Sugar -26.1%	Aluminum -3.8%	Unleaded Gas -30.9%	Live Cattle -0.1%	Copper -13.5%	Wheat -26.4%	Soybeans -14.6%	Wheat -5.7%
WTI Crude -41.7%	Nickel -42.6%	Corn -9.8%	Sugar -25.4%	Coffee -26.5%	Corn -5.2%	Natural Gas -41.9%	Gold -3.8%	Aluminum -15.1%	Nickel -44.4%	Corn -16.1%	WTI Crude -8.6%
Unleaded Gas -43.8%	WTI Crude -44.3%	Wheat -24.1%	Natural Gas -36.4%	Unleaded Gas -28.3%	Natural Gas -37.2%	WTI Crude -50.7%	Silver -12.3%	Coffee -21.9%	Natural Gas -65.3%	Natural Gas -27.1%	Natural Gas -27.5%

- Commodities
- WTI Crude
- Live Cattle
- Silver
- Corn
- Sugar
- Unleaded Gas
- Wheat
- Nickel
- Copper
- Zinc
- Natural Gas
- Coffee
- Gold
- Soybeans
- Aluminum

Source: Bloomberg and Morningstar. See disclosures for asset class, index and portfolio definitions. Returns are gross of fees. Returns for periods longer than one year are annualized. It is not possible to invest directly in an index.

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# Calendar Year and Trailing Total Returns

3Q, 2024

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	YTD	10 Years
US 60/40 10.6%	Mkt Neutral 1.8%	US 60/40 8.2%	World Alloc 14.8%	Mkt Neutral -0.3%	US 60/40 22.1%	Convertibles 39.9%	LS Equity 18.0%	Mngd Futures 16.9%	US 60/40 17.7%	US 60/40 14.9%	US 60/40 8.9%
Mngd Futures 9.1%	US 60/40 1.2%	Convertibles 7.7%	US 60/40 14.3%	Alternvt Bond -1.2%	Convertibles 21.5%	US 60/40 15.4%	US 60/40 16.0%	Mkt Neutral 5.9%	Option Writing 17.6%	LS Equity 12.1%	Convertibles 7.5%
Convertibles 6.4%	Mngd Futures -0.9%	World Alloc 6.0%	Tactical Alloc 12.6%	Convertibles -2.1%	World Alloc 16.1%	Tactical Alloc 9.8%	Tactical Alloc 13.4%	Multi Strat -2.1%	Tactical Alloc 10.7%	World Alloc 11.1%	LS Equity 5.3%
Multi Strat 3.4%	Alternvt Bond -1.4%	Tactical Alloc 6.0%	Convertibles 12.2%	US 60/40 -2.3%	Tactical Alloc 14.6%	LS Equity 7.9%	World Alloc 11.3%	Alternvt Bond -6.3%	World Alloc 10.7%	Option Writing 10.8%	Option Writing 4.9%
LS Equity 2.9%	Multi Strat -1.7%	Alternvt Bond 5.3%	LS Equity 11.2%	Option Writing -3.5%	LS Equity 11.9%	Option Writing 7.2%	Option Writing 10.7%	LS Equity -7.6%	LS Equity 10.6%	Tactical Alloc 10.7%	Tactical Alloc 4.8%
Mkt Neutral 2.7%	Option Writing -1.8%	Option Writing 3.3%	Option Writing 6.0%	Multi Strat -4.3%	Option Writing 11.3%	World Alloc 6.2%	Mkt Neutral 6.9%	Option Writing -9.2%	Convertibles 9.0%	Mkt Neutral 9.3%	World Alloc 4.8%
Option Writing 2.6%	LS Equity -2.0%	Multi Strat 2.5%	Multi Strat 5.6%	Mngd Futures -5.8%	Multi Strat 7.8%	Alternvt Bond 3.4%	Multi Strat 6.9%	World Alloc -12.3%	Alternvt Bond 6.9%	Convertibles 8.1%	Mngd Futures 3.2%
Tactical Alloc 2.4%	Convertibles -3.7%	LS Equity 2.3%	Alternvt Bond 4.1%	LS Equity -6.3%	Alternvt Bond 6.7%	Mngd Futures 2.8%	Mngd Futures 5.0%	Tactical Alloc -15.5%	Multi Strat 6.2%	Alternvt Bond 5.9%	Mkt Neutral 3.2%
World Alloc 1.5%	World Alloc -4.1%	Mkt Neutral 0.9%	Mkt Neutral 3.4%	Tactical Alloc -7.7%	Mngd Futures 4.7%	Multi Strat 1.6%	Convertibles 4.4%	US 60/40 -15.9%	Mkt Neutral 5.1%	Multi Strat 5.5%	Alternvt Bond 2.6%
Alternvt Bond 1.2%	Tactical Alloc -5.9%	Mngd Futures -2.8%	Mngd Futures 3.0%	World Alloc -8.3%	Mkt Neutral 0.1%	Mkt Neutral -5.3%	Alternvt Bond 1.8%	Convertibles -17.5%	Mngd Futures -3.8%	Mngd Futures 2.9%	Multi Strat 2.6%

- U.S. 60/40
- Option Writing
- Market Neutral
- World Allocation
- Tactical Allocation
- Convertibles
- Alternative Bonds
- Managed Futures
- Long-Short Equity
- Multi Strategy

Source: Bloomberg and Morningstar. See disclosures for asset class, index and portfolio definitions. Returns are gross of fees. Returns for periods longer than one year are annualized. It is not possible to invest directly in an index.

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# Calendar Year and Trailing Total Returns

3Q, 2024

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	YTD	10 Years
Bitcoin 158.8%	Amazon 117.8%	Bitcoin 124.1%	Bitcoin 1622.9%	Amazon 28.4%	Bitcoin 86.4%	Tesla 743.4%	Short Vol 72.2%	Midstrm Energy 30.9%	Bitcoin 156.6%	Bitcoin 49.1%	Bitcoin 69.4%
Tesla 47.9%	Short Vol 36.0%	Short Vol 67.8%	Short Vol 72.1%	Tesla 6.9%	Short Vol 67.8%	Bitcoin 293.4%	Bitcoin 67.2%	Short Vol 23.1%	Tesla 101.7%	Momentum 30.5%	Short Vol 47.2%
Short Vol 25.5%	Bitcoin 35.1%	Microcap Stcks 20.4%	Amazon 56.0%	Cash 1.8%	Momentum 28.1%	Amazon 76.3%	Tesla 49.8%	Commodities 16.1%	Amazon 80.9%	Gold 28.5%	Tesla 32.1%
Momentum 14.7%	Momentum 9.3%	Midstrm Energy 18.3%	Tesla 45.7%	Muni Bonds 1.6%	Value 25.7%	Momentum 29.6%	Midstrm Energy 40.2%	Cash 1.5%	Short Vol 72.2%	Amazon 22.6%	Amazon 27.7%
Value 12.3%	Tesla 7.9%	Value 16.9%	Momentum 37.8%	Gold -1.1%	Tesla 25.7%	Gold 24.2%	Value 27.2%	Gold -0.4%	Midstrm Energy 26.6%	Short Vol 19.7%	Momentum 13.7%
Midstrm Energy 4.8%	Muni Bonds 2.4%	Commodities 11.8%	Global 60/40 17.4%	Momentum -1.6%	Amazon 23.0%	Microcap Stcks 21.0%	Commodities 27.1%	Muni Bonds -4.8%	Global 60/40 16.1%	Midstrm Energy 18.6%	Value 9.5%
Muni Bonds 4.7%	Cash 0.0%	Amazon 10.9%	Value 15.4%	Global 60/40 -5.7%	Microcap Stcks 22.4%	Global 60/40 13.6%	Microcap Stcks 19.3%	Value -6.2%	Gold 13.8%	Value 17.9%	Gold 8.2%
Microcap Stcks 3.6%	Value -1.9%	Gold 9.1%	Microcap Stcks 13.2%	Value -7.2%	Global 60/40 19.2%	Muni Bonds 4.2%	Momentum 12.9%	Global 60/40 -16.0%	Momentum 9.5%	Global 60/40 12.6%	Microcap Stcks 7.3%
Global 60/40 2.5%	Global 60/40 -2.4%	Global 60/40 6.0%	Gold 11.9%	Commodities -11.2%	Gold 18.8%	Value 0.9%	Global 60/40 10.1%	Momentum -17.4%	Microcap Stcks 9.3%	Microcap Stcks 7.4%	Global 60/40 6.4%
Cash 0.0%	Microcap Stcks -5.2%	Momentum 5.1%	Muni Bonds 3.5%	Midstrm Energy -12.4%	Commodities 7.7%	Cash 0.5%	Amazon 2.4%	Microcap Stcks -22.0%	Value 9.2%	Commodities 5.9%	Muni Bonds 2.0%
Gold -0.2%	Gold -11.4%	Cash 0.3%	Commodities 1.7%	Microcap Stcks -13.1%	Midstrm Energy 6.6%	Commodities -3.1%	Muni Bonds 0.5%	Amazon -49.6%	Cash 5.1%	Tesla 5.3%	Midstrm Energy 1.8%
Commodities -17.0%	Commodities -24.7%	Muni Bonds -0.1%	Cash 0.8%	Short Vol -68.1%	Muni Bonds 5.6%	Short Vol -13.2%	Cash 0.0%	Tesla -65.0%	Muni Bonds 4.6%	Cash 4.1%	Cash 1.6%
Amazon -22.2%	Midstrm Energy -32.6%	Tesla -11.0%	Midstrm Energy -6.5%	Bitcoin -72.3%	Cash 2.2%	Midstrm Energy -28.7%	Gold -3.8%	Bitcoin -65.0%	Commodities -7.9%	Muni Bonds 1.9%	Commodities 0.0%

- Global 60/40
- Midstream Energy
- Microcap Stocks
- Bitcoin
- Short Volatility
- Commodities
- Municipal Bonds
- Amazon
- Cash
- Value Stocks
- Gold
- Tesla
- Momentum Stocks

Source: Bloomberg and Morningstar. See disclosures for asset class, index and portfolio definitions. Returns are gross of fees. Returns for periods longer than one year are annualized. It is not possible to invest directly in an index.

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# Calendar Year and Trailing IRR

3Q, 2024

2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024*	15 Yrs
Growth-Exp 20.7%	Oil & Gas 19.5%	Buyout 14.8%	Venture 21.2%	Venture 20.4%	Buyout 13.5%	Oil & Gas 19.0%	Buyout 20.6%	Venture 18.9%	Growth-Exp 19.7%	Venture 40.0%	Venture 53.5%	Oil & Gas 31.9%	Buyout 10.9%	Growth-Exp 4.6%	Growth-Exp 16.0%
Secondaries 20.5%	Secondaries 13.9%	Secondaries 14.3%	Real Estate 20.2%	Infrastructure 13.1%	Venture 12.7%	Buyout 12.2%	Global 60/40 17.4%	Growth-Exp 17.5%	Global 60/40 19.2%	Growth-Exp 34.6%	Growth-Exp 50.1%	Infrastructure 10.0%	Infrastructure 10.9%	Infrastructure 4.2%	Buyout 15.3%
Private Debt 18.1%	Venture 11.2%	Private Debt 14.0%	Buyout 18.1%	Real Estate 13.0%	Growth-Exp 12.5%	All Pvt Mkts 9.9%	Growth-Exp 16.6%	FoF 16.3%	Venture 17.2%	FoF 28.7%	Secondaries 44.1%	Real Estate 7.7%	Private Debt 10.6%	Global 60/40 4.2%	Secondaries 12.8%
Buyout 17.6%	Growth-Exp 9.7%	Growth-Exp 13.3%	Growth-Exp 17.6%	Buyout 12.8%	FoF 11.8%	Growth-Exp 9.2%	Secondaries 15.8%	Secondaries 14.7%	Buyout 16.3%	Buyout 26.9%	FoF 44.0%	Secondaries 5.2%	All Pvt Mkts 7.1%	FoF 4.0%	All Pvt Mkts 12.7%
Oil & Gas 17.0%	FoF 8.2%	All Pvt Mkts 12.4%	All Pvt Mkts 16.0%	All Pvt Mkts 12.6%	Real Estate 11.2%	Infrastructure 8.9%	All Pvt Mkts 15.4%	Infrastructure 11.6%	All Pvt Mkts 11.9%	All Pvt Mkts 18.7%	Oil & Gas 39.0%	Private Debt 4.5%	Growth-Exp 6.0%	Oil & Gas 3.9%	Venture 12.4%
All Pvt Mkts 15.9%	Real Estate 8.2%	Global 60/40 11.9%	Global 60/40 11.9%	FoF 12.6%	Secondaries 11.0%	Real Estate 8.8%	Real Estate 13.3%	All Pvt Mkts 10.5%	FoF 11.5%	Global 60/40 13.6%	Buyout 37.3%	All Pvt Mkts 0.6%	Secondaries 5.4%	Venture 2.7%	FoF 11.3%
Real Estate 12.0%	All Pvt Mkts 8.0%	Real Estate 10.8%	Private Debt 11.0%	Secondaries 12.5%	All Pvt Mkts 10.1%	Private Debt 8.7%	FoF 12.8%	Buyout 10.3%	Secondaries 10.2%	Secondaries 10.4%	All Pvt Mkts 34.2%	Buyout -0.6%	FoF 0.8%	All Pvt Mkts 2.1%	Private Debt 10.2%
Venture 11.9%	Infrastructure 7.7%	FoF 7.2%	FoF 10.9%	Private Debt 12.5%	Infrastructure 9.9%	FoF 7.8%	Private Debt 10.5%	Real Estate 7.1%	Private Debt 8.4%	Infrastructure 6.9%	Real Estate 26.3%	FoF -5.2%	Oil & Gas -2.0%	Buyout 1.9%	Infrastructure 9.4%
Global 60/40 10.3%	Buyout 7.6%	Venture 7.1%	Secondaries 10.8%	Growth-Exp 12.0%	Private Debt 4.6%	Secondaries 7.3%	Venture 9.4%	Private Debt 5.8%	Real Estate 8.1%	Private Debt 5.0%	Private Debt 15.9%	Growth-Exp -6.4%	Real Estate -4.2%	Secondaries 1.5%	Real Estate 8.8%
FoF 6.2%	Private Debt 3.3%	Infrastructure 6.9%	Oil & Gas 7.1%	Global 60/40 2.5%	Global 60/40 -2.4%	Global 60/40 6.0%	Oil & Gas 9.0%	Oil & Gas 3.9%	Infrastructure 7.2%	Real Estate 4.9%	Infrastructure 15.6%	Global 60/40 -16.0%	Venture -4.7%	Real Estate 0.0%	Global 60/40 8.0%
Infrastructure 6.1%	Global 60/40 -2.0%	Oil & Gas 6.7%	Infrastructure 5.9%	Oil & Gas -2.5%	Oil & Gas -21.3%	Venture -0.1%	Infrastructure 8.3%	Global 60/40 -5.7%	Oil & Gas -12.0%	Oil & Gas -18.3%	Global 60/40 10.1%	Venture -16.9%	Global 60/40 -16.0%	Private Debt 0.0%	Oil & Gas 5.7%

- Global 60/40
- All Private Markets
- Private Real Estate
- Growth-Expansion PE
- Private Debt
- Infrastructure
- Fund of Funds
- Oil & Gas
- Secondaries
- Buyout
- Venture Capital

Source: Pitchbook, Bloomberg and SpringTide. See disclosures for asset class, index and portfolio definitions. Returns are net of fees. Returns for periods longer than one year are annualized. It is not possible to invest directly in an index. \* The most recent data available at time of publication was as of 3/31/2024.

# Calendar Decade and Trailing Total Returns

3Q, 2024

1920s	1930s	1940s	1950s	1960s	1970s	1980s	1990s	2000s	2010s	2020s*	100 Yrs
U.S. 90/10 13.3%	All Seasons 6.3%	U.S. 90/10 12.1%	U.S. 90/10 14.8%	U.S. 90/10 8.7%	Mod Permnt 15.7%	U.S. 80/20 14.0%	U.S. 90/10 16.2%	Mod Permnt 10.6%	U.S. 90/10 12.6%	U.S. 90/10 12.8%	U.S. 90/10 10.2%
U.S. 80/20 12.9%	Gbl Mkt Port 5.6%	U.S. 80/20 11.2%	U.S. 80/20 13.3%	U.S. 80/20 8.0%	Permanent 13.3%	U.S. 60/40 14.0%	U.S. 80/20 15.7%	Endowment 8.0%	U.S. 80/20 12.1%	U.S. 80/20 10.7%	U.S. 80/20 9.9%
U.S. 60/40 11.3%	U.S. 20/80 5.1%	U.S. 60/40 9.0%	U.S. 60/40 10.4%	Endowment 7.3%	Endowment 11.3%	U.S. 90/10 13.6%	U.S. 60/40 13.8%	Permanent 7.6%	U.S. 60/40 10.1%	U.S. 60/40 7.6%	U.S. 60/40 8.9%
Gbl Mkt Port 9.9%	Permanent 5.1%	Endowment 6.9%	Endowment 7.7%	U.S. 60/40 6.8%	Gbl Mkt Port 10.8%	U.S. 20/80 13.5%	All Seasons 10.4%	All Seasons 7.4%	All Seasons 7.2%	Mod Permnt 7.0%	Endowment 7.9%
Endowment 9.6%	U.S. 60/40 4.8%	All Seasons 5.9%	Gbl Mkt Port 7.2%	Gbl Mkt Port 6.5%	All Seasons 9.4%	Gbl Mkt Port 12.5%	Endowment 10.3%	Gbl Mkt Port 7.4%	Permanent 6.8%	Endowment 5.5%	Gbl Mkt Port 7.7%
All Seasons 8.1%	Endowment 4.0%	Gbl Mkt Port 5.6%	Mod Permnt 6.5%	All Seasons 4.9%	U.S. 90/10 8.5%	All Seasons 12.3%	U.S. 20/80 9.9%	U.S. 20/80 5.3%	Mod Permnt 6.8%	Permanent 5.1%	All Seasons 7.3%
U.S. 20/80 7.8%	Mod Permnt 3.8%	Mod Permnt 4.6%	U.S. 20/80 4.6%	U.S. 20/80 4.3%	U.S. 80/20 8.0%	Endowment 11.8%	Gbl Mkt Port 9.7%	U.S. 60/40 3.7%	U.S. 20/80 6.0%	Gbl Mkt Port 2.9%	Mod Permnt 7.2%
Permanent 6.7%	U.S. 80/20 3.6%	U.S. 20/80 4.3%	All Seasons 4.4%	Mod Permnt 4.3%	U.S. 60/40 7.5%	Permanent 8.9%	Permanent 7.6%	U.S. 80/20 2.6%	Gbl Mkt Port 5.9%	All Seasons 2.0%	Permanent 6.8%
Mod Permnt 6.4%	U.S. 90/10 2.4%	Permanent 4.3%	Permanent 4.4%	Permanent 4.2%	U.S. 20/80 6.0%	Mod Permnt 7.9%	Mod Permnt 6.5%	U.S. 90/10 1.7%	Endowment 5.6%	U.S. 20/80 1.5%	U.S. 20/80 6.4%

- U.S. 60/40
- U.S. 80/20
- U.S. 20/80
- U.S. 90/10 (“Buffet”)
- Global Market Portfolio
- Permanent Portfolio
- Modified Permanent
- Endowment Portfolio
- All Seasons Portfolio

Source: Bloomberg, Morningstar, SpringTide, Ibbotson Associates, MSCI, Alerian, LBMA. See disclosures for asset class, index and portfolio definitions. Returns are gross of fees. Returns for periods longer than one year are annualized. It is not possible to invest directly in an index. \* Returns presented are for the decade to date. As of 9/30/2024.

Asset Class/ Security	Asset Class Benchmark/ Security
Global 60/40	Global 60-40 (60% MSCI ACWI, 40% Bbg Gbl Agg Bond)
US 60/40	U.S. 60-40 (60% S&P 500, 40% Bbg Agg Bond)
ABS	BBgBarc ABS TR Index
All Private Markets	Pitchbook Private Capital
Alternv Bond	US Fund Nontraditional Bond
Aluminum	Bloomberg Sub Aluminum TR Index
Amazon	Amazon.com Inc
Bank Loan	Credit Suisse Leveraged Loan Index
Bitcoin	MVIS CryptoCompare Bitcoin PR Index
Buyout	Pitchbook Buyout
Cash	BBgBarc US Treasury Bill 1-3 Mon TR Index
Coffee	Bloomberg Sub Coffee TR Index
Commodities	Bloomberg Commodity TR Index
CommServ	S&P 500 Sec/Commun Services TR Index
Cons Disc	S&P 500 Sec/Cons Disc TR Index
ConsStaples	S&P 500 Sec/Cons Staples TR Index
Convertibles	US Fund Convertibles
Copper	Bloomberg Sub Copper TR Index
Corn	Bloomberg Sub Corn TR Index
Cyclicals	MSCI USA Cyclical Sectors GR Index
Defensives	MSCI USA Defensive Sectors Capped GR Index
EM Bonds	Bloomberg EM USD Aggregate TR Index
EM Stocks	MSCI EM NR Index
Emerging	Bloomberg EM USD Aggregate TR Index
Energy	S&P 500 Sec/Energy TR Index
Ex-US Dev	S&P International Sov Ex-US Bond TR Index
Ex-US REITs	S&P Global Ex US Property TR Index
Facebook	Facebook Inc A
Financials	S&P 500 Sec/Financials TR Index

Asset Class/ Security	Asset Class Benchmark/ Security
Gold	LBMA Gold Price AM Index
Govt	BBgBarc US Government TR Index
Growth-Expansion PE	Pitchbook Growth-Expansion
Health Care	S&P 500 Sec/Health Care TR Index
High Dividnd	MSCI USA High Dividend Yield GR Index
High Quality	MSCI USA Quality GR Index
HY Corp	BBgBarc High Yield Corporate TR Index
IG Corp	BBgBarc US Corp Bond TR Index
Industrials	S&P 500 Sec/Industrials TR Index
Intl Dev Bnds	S&P International Sov Ex-US Bond TR Index
Intl Dev Stcks	MSCI EAFE NR Index
Large Cap	S&P 500 TR Index
Live Cattle	Bloomberg Sub Live Cattle TR Index
LS Equity	US Fund Long-Short Equity
Materials	S&P 500 Sec/Materials TR Index
MBS	BBgBarc US MBS TR Index
Microcap Stcks	Russell Micro Cap TR Index
Midstrm Energy	Alerian MLP TR Index
Min Vol	MSCI USA Minimum Volatility (USD) GR Index
Mkt Neutral	US Fund Equity Market Neutral
Mngd Futures	US Fund Managed Futures
Momentum	MSCI USA Momentum GR Index
Multi Strat	US Fund Multistrategy
Muni Bonds	BBgBarc Municipal 1-10Y Blend 1-12Y TR Index
Municipal	BBgBarc Municipal 1-10Y Blend 1-12Y TR Index
Natural Gas	Bloomberg Sub Natural Gas TR Index
Nickel	Bloomberg Sub Nickel TR Index
Option Writing	US Fund Options Trading
Other Private Equity	Pitchbook Other PE

Asset Class/ Security	Asset Class Benchmark/ Security
Private Debt	Pitchbook Private Debt
Private Real Assets	Pitchbook Real Assets
Private Real Estate	Pitchbook Real Estate
Real Estate	S&P 500 Sec/Real Estate TR Index
S&P 500	S&P 500 TR Index
Short Vol	S&P 500 VIX Short Term Futures TR Index (Inverse)
Secondaries	Pitchbook Secondaries
Silver	Bloomberg Sub Silver TR Index
Small Cap	Russell 2000 TR Index
Soybeans	Bloomberg Sub Soybean TR Index
Sugar	Bloomberg Sub Sugar TR Index
Tactical Alloc	US Fund Tactical Allocation
Taxble Bonds	BBgBarc US Agg Bond TR Index
Technology	S&P 500 Sec/Information Technology TR Index
Tesla	Tesla Inc
Unleaded Gas	Bloomberg Sub Unleaded Gas TR Index
US Agg	BBgBarc US Agg Bond TR Index
US All Cap Value	Russell 3000 Value TR Index
US High Yield	BBgBarc High Yield Corporate TR Index
US Large Cap	Russell 1000 TR Index
US REITs	MSCI US REIT GR Index
US Small Cap	Russell 2000 TR Index
Utilities	S&P 500 Sec/Utilities TR Index
Value	MSCI USA Value GR Index
Venture Capital	Pitchbook Venture Capital
Wheat	Bloomberg Sub Wheat TR Index
World Alloc	US Fund World Allocation
WTI Crude	Bloomberg Sub WTI Crude Oil TR Index
Zinc	Bloomberg Sub Zinc TR Index

## PRIVATE MARKETS

**All Private Markets:** All private markets is an aggregation of all private funds mentioned in this report.

**Buyout Private:** Equity funds primarily focus on purchasing at least a controlling percentage of a company's stock to take over its assets and operations.

**Fund of Funds:** Funds that take equity positions in other, newly created alternative investment funds.

**Growth/Expansion:** Private equity funds that make minority (non-control) equity investments.

**Other Private Equity:** Other private equity includes all private equity that is not specifically buyout or growth/expansion. This includes, but is not limited to: Diversified Private Equity, Mezzanine and Restructuring/Turnaround.

**Private Debt:** Private debt in general provide various types of debt on private equity transactions and generally includes, but is not limited to, the following: Bridge financing, Credit Trading, Direct Origination or Capital Solutions, Distressed-for-Control, Direct Lending, Distressed Debt, Infrastructure Debt, Real Estate Debt and Venture Debt.

**Private Real Assets:** Funds that focus on physical assets with intrinsic value due to their substance and natural resources with commodities assets. This includes, but is not limited to: Oil/Gas, Metals & Mining, Timber and Agriculture.

**Private Real Estate:** Private real estate funds in general are private equity funds that invest in buildings in land. This includes core, core plus, value added, opportunistic and distressed real estate.

**Secondaries:** Private equity funds that invest in limited partnership interest of funds that have already been raised or directly the purchase of companies from other fund managers.

**Venture:** Venture Capital funds that invest in new companies with high growth rates. Includes angel funds, early (seed, first, second rounds) stage and later stage (third and later rounds) venture.

## LIQUID ALTERNATIVES

**Alternative Bonds:** Alternative bonds refer to fixed income securities that are not traditional government or corporate bonds. These may include asset-backed securities, high yield bonds, or other types of debt securities that offer unique risk and return characteristics. While alternative bonds may offer the potential for higher yields or diversification benefits, investors should carefully consider the risks associated with these securities before investing.

**Convertibles:** Convertibles refer to a type of hybrid security that combines elements of both stocks and bonds. Convertible securities typically offer a fixed income stream, like a bond, but also give investors the option to convert the security into shares of the underlying stock at a predetermined price. Convertibles may offer investors the potential for both income and capital appreciation but may also be subject to additional risks and complexities.

**Long-Short Equity:** Long-short equity refers to an investment strategy that involves taking long positions in securities that are expected to increase in value and short positions in securities that are expected to decrease in value. This strategy may provide the potential for alpha generation and downside protection but may also be subject to additional risks and complexities associated with short selling.

**Managed Futures:** Managed futures refer to an investment strategy that involves trading futures contracts, such as those based on commodities, currencies, or interest rates, with the goal of generating returns. Managed futures may use a variety of trading techniques, including trend following and counter-trend strategies, and may be subject to additional risks and complexities associated with futures trading.

**Market Neutral:** Market neutral refers to an investment strategy that aims to generate returns regardless of whether the overall market is up or down. This is achieved by simultaneously taking long and short positions in different securities or asset classes, with the goal of offsetting the impact of market movements. While market neutral strategies can provide diversification benefits, they may also involve additional risks and complexities that investors should be aware of.

**Multi-Strategy:** Multi-strategy refers to an investment approach that combines multiple investment strategies or styles, such as value, growth, or momentum, in a single portfolio. This may involve a mix of long-only and alternative investment strategies, with the goal of achieving diversification and enhancing risk-adjusted returns. However, investors should be aware that multi-strategy portfolios may involve additional risks and complexities associated with managing multiple investment styles and strategies.

**Option Writing:** Option writing is an investment strategy that involves selling options contracts, such as calls or puts, on an underlying security with the intention of generating income. However, option writing may also expose investors to potential losses if the market moves against the position. It is important for investors to understand the risks associated with option writing and to carefully consider their investment objectives and risk tolerance before engaging in this strategy.

**Tactical Allocation:** Tactical allocation refers to an investment strategy that involves making adjustments to a portfolio's asset allocation based on market conditions or other factors. This may involve shifting investments between different asset classes, such as stocks and bonds, or making changes to individual holdings within a particular asset class. Tactical allocation strategies may be used to capitalize on short-term opportunities or to manage risk in changing market conditions.

**World Allocation:** World allocation refers to an investment strategy that involves investing in a diversified portfolio of global assets, including stocks, bonds, and other securities, with the goal of achieving long-term growth and income. World allocation strategies may use a variety of approaches, including active and passive management, and may invest in both developed and emerging markets. However, investors should be aware that world allocation strategies may be subject to additional risks associated with international investing.

## OTHER

**Short Volatility:** Short volatility refers to a strategy where investors sell put options to market participants who want to hedge their portfolios against strong, usually negative fluctuations.



**Disclosures & Definitions > Asset Classes**

Asset Class	Benchmark	Index	Start Date	End Date	Data Source
U.S. Large Cap Stocks	S&P 500 Index	S&P 500 TR Index	01/31/1970	n/a	Bloomberg, Ibbotson Associates, NYU/Stern
		IA SBBI US Large Stock TR Index	01/31/1926	12/31/1969	
		NYU/Stern S&P 500 TR	01/31/1920	12/31/1925	
U.S. Small & Micro Cap	Russell 2000 TR Index	Russell 2000 TR Index	01/31/1979	n/a	Bloomberg, Ibbotson Associates, SpringTide
		IA SBBI US Small Stock TR Index	01/31/1926	12/31/1978	
		SpringTide U.S. Small & Micro Cap Premium-Based Extension	01/31/1920	12/31/1925	
Intl Dev Stocks	MSCI EAFE NR Index	MSCI EAFE NR Index	01/31/1970	n/a	MSCI, NYU/Stern
		NYU/Stern Developed World Indices	01/31/1920	12/31/1969	
EM & Frontier Stocks	MSCI Emerging Markets NR Index	MSCI Emerging Markets NR Index	01/31/2001	n/a	MSCI, NYU/Stern
		NYU/Stern Emerging World Index (Price)	01/31/1920	12/31/2000	
Global Stocks	MSCI ACWI NR Index	MSCI ACWI NR Index	01/31/2001	n/a	MSCI, NYU/Stern
		NYU/Stern All World Index (Price)	01/31/1920	12/31/2000	
Venture Capital	Cambridge Venture Capital	Cambridge Venture Capital	01/01/1981	n/a	Cambridge, SpringTide
		SpringTide Venture Capital Premium-Based Extension	01/31/1920	12/31/1980	
U.S. Muni Bonds	Bloomberg Municipal 1-10Y Blend 1-12Y TR Index	Bloomberg Municipal 1-10Y Blend 1-12Y TR Index	07/31/1993	n/a	Bloomberg
		USA Municipal AAA Bonds Total Return Index (TRUSAMUM)	01/31/1920	06/30/1993	
U.S. Long-Term Bonds	Bloomberg US Long Gov/Corp TR Index	Bloomberg US Long Gov/Corp TR Index	02/28/1999	n/a	Bloomberg, NYU/Stern
		NYU/Stern US 30Yr Government Bond TR Index	01/31/1920	01/31/1999	
U.S. Interm-Term Bonds	Bloomberg US Aggregate Bond TR Index	Bloomberg US Aggregate Bond TR Index	01/31/1976	n/a	Bloomberg, NYU/Stern
		NYU/Stern US Total Return AAA Corporate Bond Index	01/31/1920	12/31/1975	
U.S. High Yield Bonds	Bloomberg US Corporate High Yield TR Index	Bloomberg US Corporate High Yield TR Index	07/31/1983	n/a	Bloomberg, Ibbotson Associates, SpringTide
		IA Bloomberg US HY Corporate Bonds	02/28/1926	06/30/1983	
		SpringTide U.S. High Yield Bonds Premium-Based Extension	01/31/1920	01/31/1926	
Intl Dev Bonds	Bloomberg Global Aggregate ex-USD TR Index	Bloomberg Global Aggregate ex-USD TR Index	01/31/1990	n/a	Bloomberg, NYU/Stern
		NYU/Stern All World ex-USA Government Bond Index	01/31/1920	12/31/1989	
U.S. REITs	MSCI US REIT GR Index	MSCI US REIT GR Index	01/01/1995	n/a	Bloomberg, Winans
		Winans US Real Estate Index (WIREI)	01/01/1920	12/31/1994	
Commodity Futures	Bloomberg Commodity TR Index	Bloomberg Commodity TR Index	01/31/1991	n/a	Bloomberg
		Thompson Jefferies CRB Core Commodity Total Return Index	01/31/1920	12/31/1990	
Midstream Energy	Alerian MLP TR Index	Alerian MLP TR Index	01/31/1996	n/a	Alerian, Bloomberg
		S&P 500 Energy Index	01/31/1946	12/31/1995	
		ExxonMobil Corp (XOM)	01/31/1920	12/31/1945	
Gold	LBMA Gold Price	LBMA Gold Price	02/29/1968	n/a	LBMA, Bloomberg
		New York Spot Bullion	01/31/1920	01/31/1968	
Cash/Ultra-Short Bonds	Bloomberg US T-Bill 1-3 Month TR Index	Bloomberg US T-Bill 1-3 Month TR Index	12/31/1991	n/a	Bloomberg, NYU/Stern
		NYU/Stern USA Total Return T-Bill Index	01/31/1920	11/30/1991	

**Disclosures & Definitions > Portfolios**

<b>Benchmark</b>	<b>Definition</b>
U.S. 20/80 Portfolio	Consists of 20% U.S. Large Cap Stocks and 80% U.S. Inter-Term Bonds.
U.S. 60/40 Portfolio	Consists of 60% U.S. Large Cap Stocks and 40% U.S. Inter-Term Bonds.
U.S. 80/20 Portfolio	Consists of 80% U.S. Large Cap Stocks and 20% U.S. Inter-Term Bonds.
Global Market Portfolio	Consists of 17% U.S. Large Cap Stocks, 3% U.S. Small Cap Stocks, 15% Intl Dev Stocks, 8% EM & Frontier Stocks, 17.5% U.S. Inter-Term Bonds, 2% U.S. High Yield Bonds, 27.5% Intl Dev Bonds, 5% U.S. REITs, 2.5% Gold, 2.5% Commodities.
All Seasons Portfolio	Consists of 18% U.S. Large Cap Stocks, 3% U.S. Small Cap Stocks, 6% Intl Dev Stocks, 3% EM & Frontier Stocks, 15% U.S. Inter-Term Bonds, 39% U.S. Long-Term Bonds, 8% Commodities and 8% Gold.
Permanent Portfolio	Consists of 25% U.S. Large Cap Stocks, 25% Cash/Ultra-Shorts Bonds, 25% U.S. Long-Term Bonds and 25% Gold.
Modified Permanent Portfolio	Consists of 13% U.S. Large Cap Stocks, 8% Intl Dev Stocks, 4% EM & Frontier Stocks, 25% Inter-Term Bonds, 25% Gold and 25% U.S. REITs.
Endowment Portfolio	Consists of 18% U.S. Large Cap Stocks, 18% Intl Dev Stocks, 15% EM & Frontier Stocks, 6% U.S. Long-Term Bonds, 11% Intl Dev Bonds, 6% Inter-Term Bonds, 13% Commodities and 13% U.S. REITs.
U.S. 90/10 Portfolio	Consists of 90% U.S. Large Cap Stocks and 10% Cash/Ultra-Short Bonds.

### Disclosures

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