



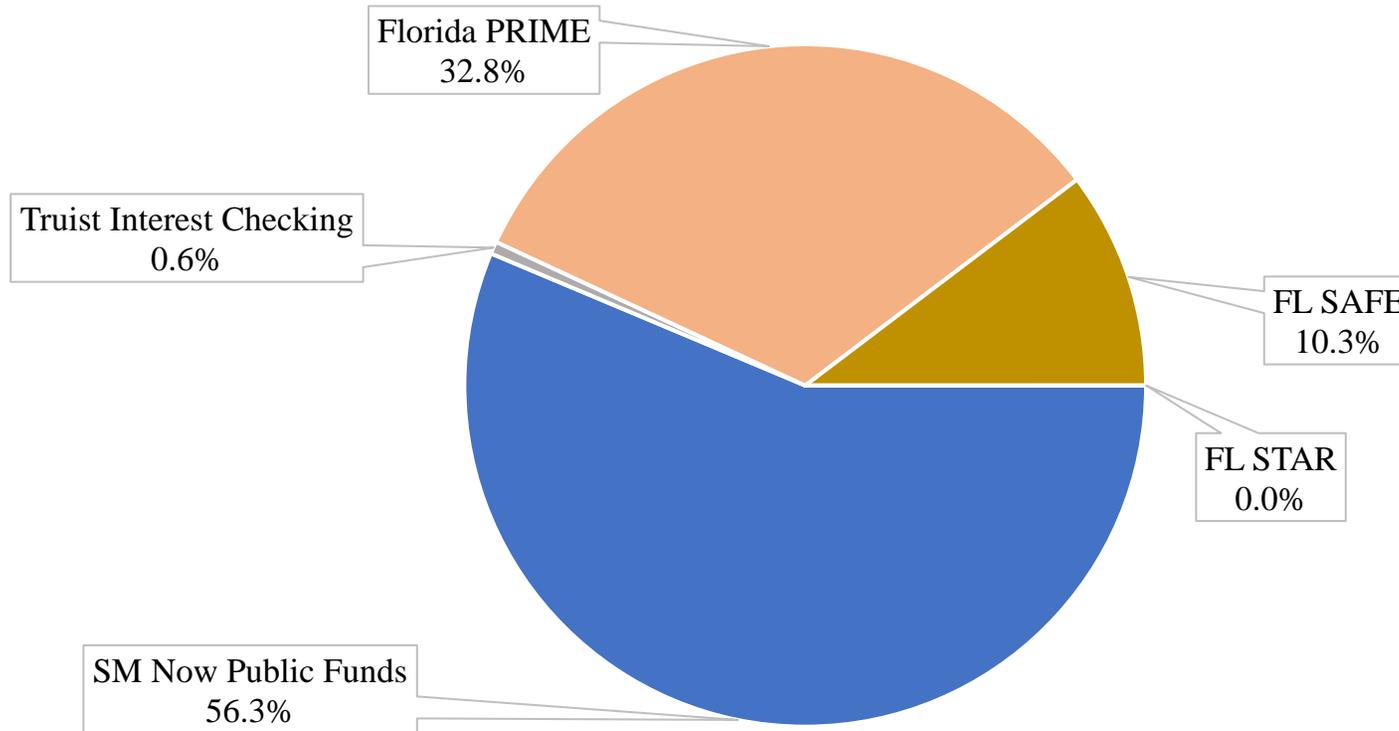
City of South Miami Finance Department

Investment Report December 2024

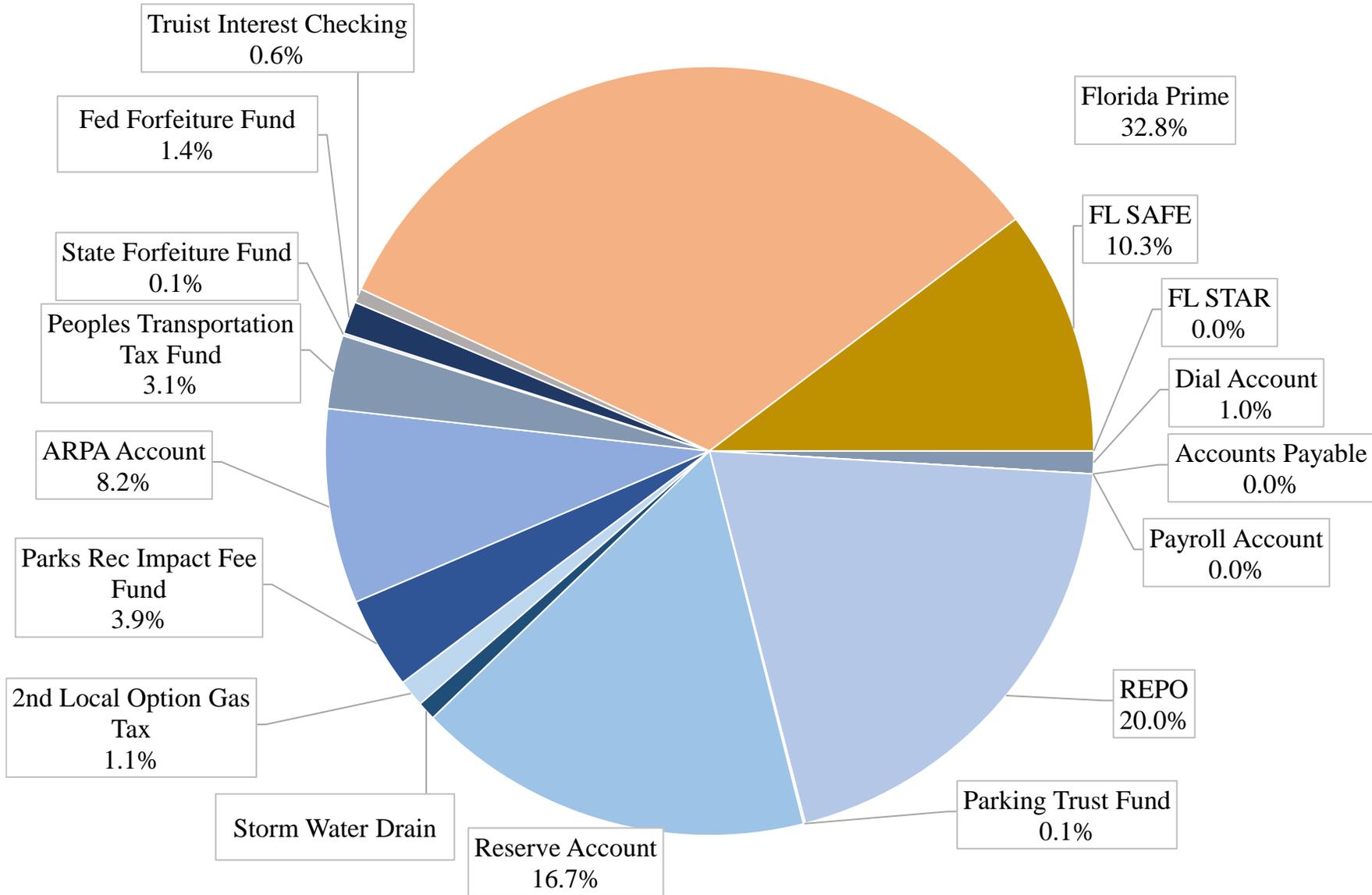


DAHAB ASSOCIATES

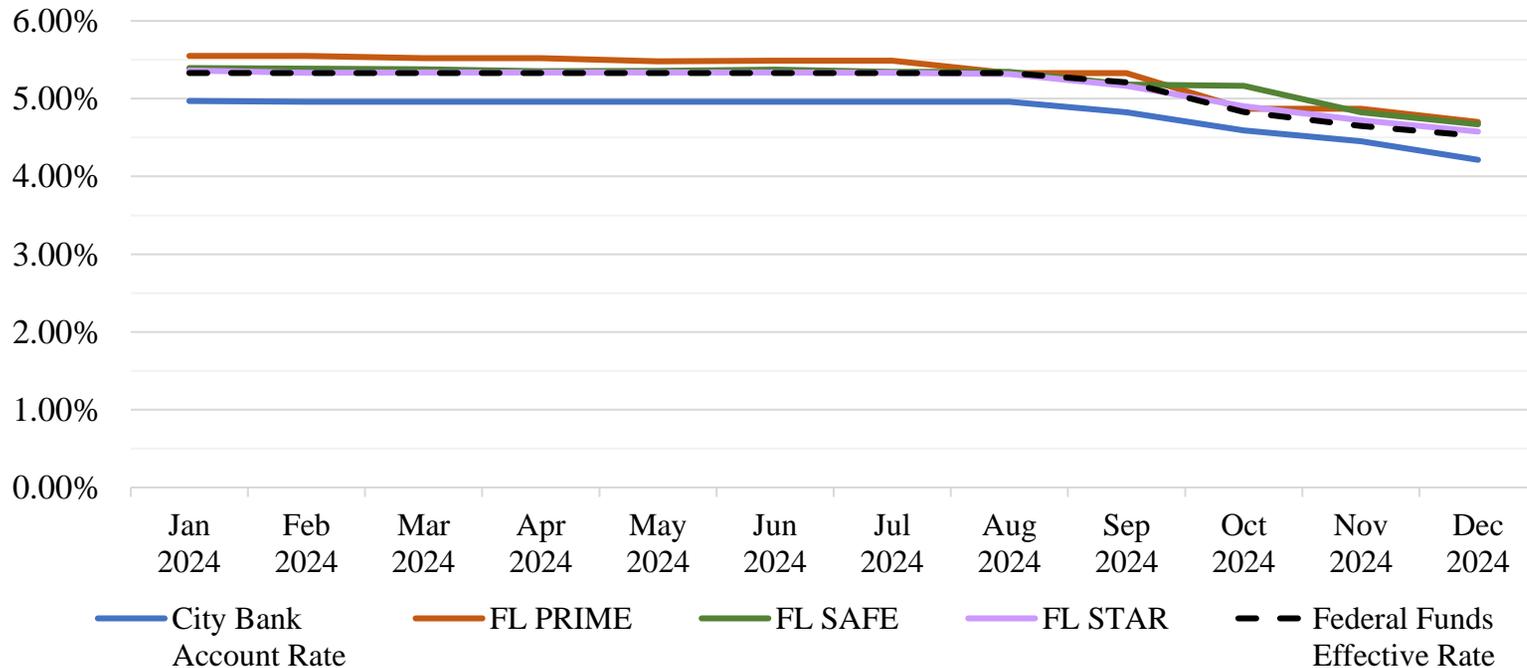
Type	Balance on Sep. 30	Balance on Dec. 31	Net Flow Quarter	Interest Paid Quarter
SM Now Public Funds	\$19,740,232.12	\$23,680,641.87	\$3,365,780.01	\$574,629.74
Truist Interest Checking	\$250,321.50	\$250,327.79	\$0.00	\$6.29
Florida PRIME	\$13,609,430.12	\$13,777,148.53	\$0.00	\$167,718.41
FL SAFE	\$4,282,711.85	\$4,334,765.50	\$0.00	\$52,053.65
FL STAR	\$549.82	\$556.33	\$0.00	\$6.51
Total	\$37,883,245.41	\$42,043,440.02	\$3,365,780.01	\$794,414.60



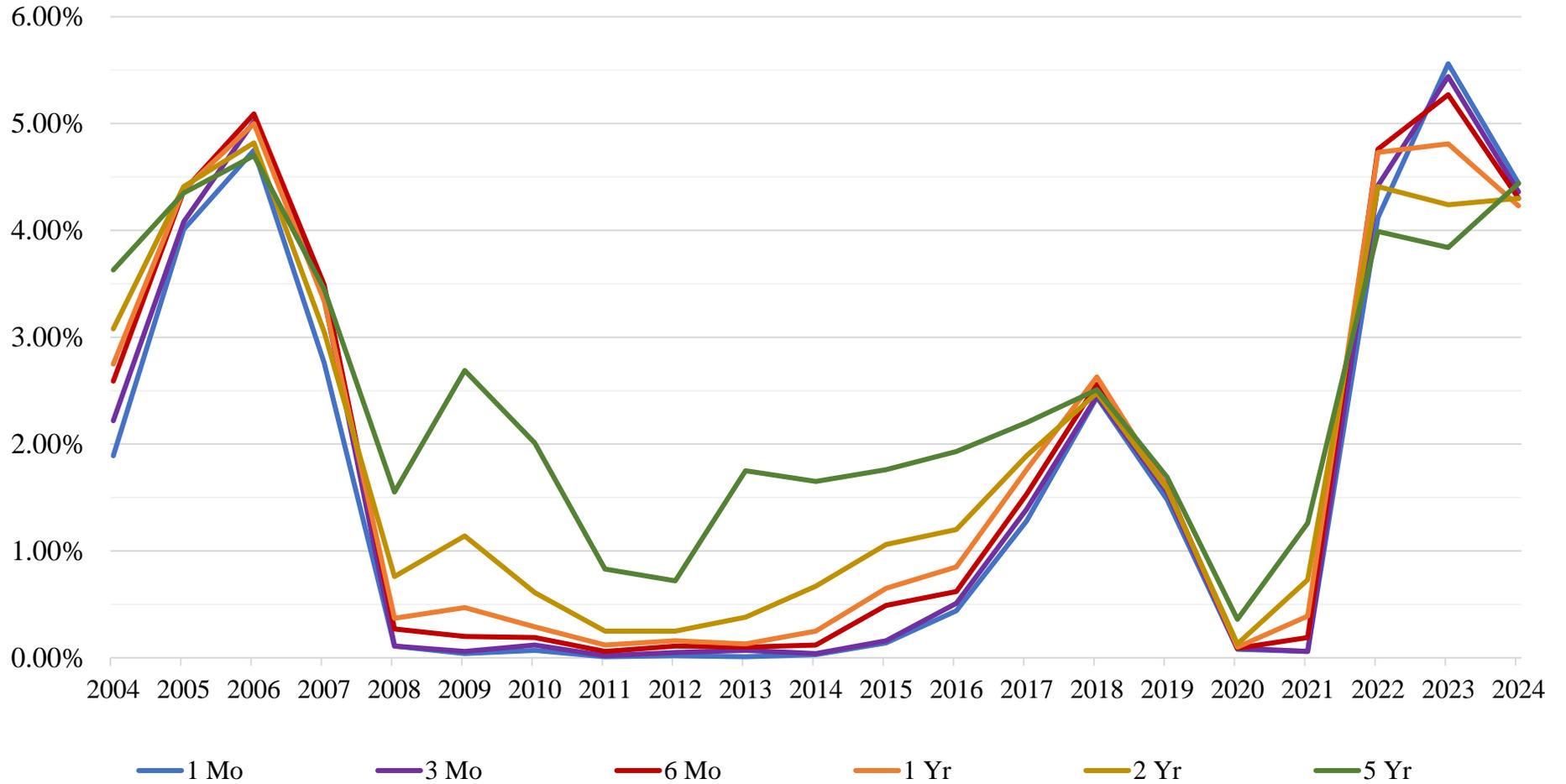
Name	Type	Balance on Sep. 30	Balance on Dec. 31	Net Flow Quarter	Interest Paid Quarter	Yield on Dec. 31
Dial Account	SM Now Public Funds	\$400,005.20	\$400,075.55	-\$4,255.01	\$4,325.36	4.14%
Payroll Account	SM Now Public Funds	\$73.40	\$21.08	-\$52.76	\$0.44	4.10%
Accounts Payable	SM Now Public Funds	\$62.30	\$50.45	-\$12.41	\$0.56	4.14%
REPO	SM Now Public Funds	\$3,640,786.01	\$8,422,897.05	\$4,378,882.47	\$403,228.57	4.20%
Parking Trust Fund	SM Now Public Funds	\$33,168.54	\$33,528.46	\$0.00	\$359.92	4.14%
Reserve Account	SM Now Public Funds	\$6,957,544.97	\$7,033,903.26	\$0.00	\$76,358.29	4.24%
Storm Water Drain Trust	SM Now Public Funds	\$264,118.42	\$327,811.54	\$60,742.81	\$2,950.31	4.22%
2nd Local Option Gas Tax	SM Now Public Funds	\$492,706.27	\$479,657.34	-\$18,159.14	\$5,110.21	4.14%
Parks Rec Impact Fee Fund	SM Now Public Funds	\$1,668,398.36	\$1,625,470.31	-\$61,161.12	\$18,233.07	4.24%
ARPA Account	SM Now Public Funds	\$4,112,138.24	\$3,440,130.21	-\$715,035.80	\$43,027.77	4.24%
Peoples Transportation Tax Fund	SM Now Public Funds	\$1,552,523.79	\$1,299,240.62	-\$267,650.12	\$14,366.95	4.14%
State Forfeiture Fund	SM Now Public Funds	\$44,936.92	\$45,424.55	\$0.00	\$487.63	4.14%
Fed Forfeiture Fund	SM Now Public Funds	\$573,769.70	\$572,431.45	-\$7,518.91	\$6,180.66	4.14%
Truist Interest Checking	Truist Interest Checking	\$250,321.50	\$250,327.79	\$0.00	\$6.29	0.01%
Florida Prime	Florida Prime	\$13,609,430.12	\$13,777,148.53	\$0.00	\$167,718.41	4.70%
FL SAFE	FL SAFE	\$4,282,711.85	\$4,334,765.50	\$0.00	\$52,053.65	4.67%
FL STAR	FL STAR	\$549.82	\$556.33	\$0.00	\$6.51	4.5769%
Total		\$37,883,245.41	\$42,043,440.02	\$3,365,780.01	\$794,414.60	4.40%



Month	City Bank Account Rate	FL PRIME	FL SAFE	FL STAR	Federal Funds Effective Rate
January 2024	4.97%	5.55%	5.39%	5.36%	5.33%
February 2024	4.96%	5.55%	5.39%	5.33%	5.33%
March 2024	4.96%	5.52%	5.38%	5.34%	5.33%
April 2024	4.96%	5.52%	5.35%	5.34%	5.33%
May 2024	4.96%	5.48%	5.36%	5.34%	5.33%
June 2024	4.96%	5.49%	5.37%	5.34%	5.33%
July 2024	4.96%	5.49%	5.34%	5.33%	5.33%
August 2024	4.96%	5.33%	5.35%	5.32%	5.33%
September 2024	4.83%	5.33%	5.18%	5.16%	5.21%
October 2024	4.59%	4.87%	5.17%	4.90%	4.83%
November 2024	4.45%	4.87%	4.82%	4.72%	4.65%
December 2024	4.21%	4.70%	4.67%	4.58%	4.52%

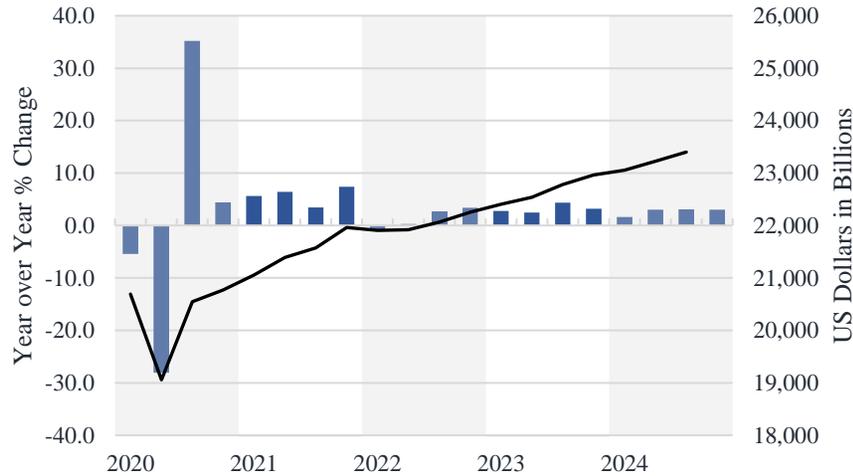


Year	1 Mo	3 Mo	6 Mo	1 Yr	2 Yr	5 Yr
2004	1.89%	2.22%	2.59%	2.75%	3.08%	3.63%
2005	4.01%	4.08%	4.37%	4.38%	4.41%	4.35%
2006	4.75%	5.02%	5.09%	5.00%	4.82%	4.70%
2007	2.76%	3.36%	3.49%	3.34%	3.05%	3.45%
2008	0.11%	0.11%	0.27%	0.37%	0.76%	1.55%
2009	0.04%	0.06%	0.20%	0.47%	1.14%	2.69%
2010	0.07%	0.12%	0.19%	0.29%	0.61%	2.01%
2011	0.01%	0.02%	0.06%	0.12%	0.25%	0.83%
2012	0.02%	0.05%	0.11%	0.16%	0.25%	0.72%
2013	0.01%	0.07%	0.10%	0.13%	0.38%	1.75%
2014	0.03%	0.04%	0.12%	0.25%	0.67%	1.65%
2015	0.14%	0.16%	0.49%	0.65%	1.06%	1.76%
2016	0.44%	0.51%	0.62%	0.85%	1.20%	1.93%
2017	1.28%	1.39%	1.53%	1.76%	1.89%	2.20%
2018	2.44%	2.45%	2.56%	2.63%	2.48%	2.51%
2019	1.48%	1.55%	1.60%	1.59%	1.58%	1.69%
2020	0.08%	0.09%	0.09%	0.10%	0.13%	0.36%
2021	0.06%	0.06%	0.19%	0.39%	0.73%	1.26%
2022	4.12%	4.42%	4.76%	4.73%	4.41%	3.99%
2023	5.56%	5.44%	5.27%	4.81%	4.24%	3.84%
December 31, 2024	4.44%	4.36%	4.30%	4.23%	4.30%	4.44%



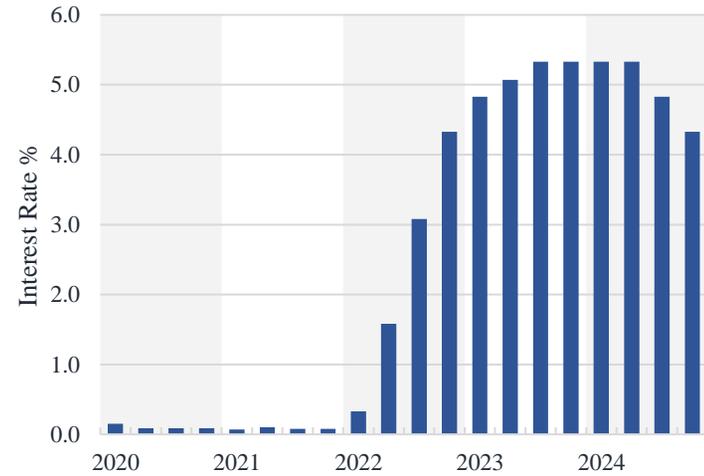
Tenor	1 Mo	3 Mo	6 Mo	1 Yr	2 Yr	5 Yr
December 31, 2024	4.44%	4.36%	4.30%	4.23%	4.30%	4.44%

Real Gross Domestic Product

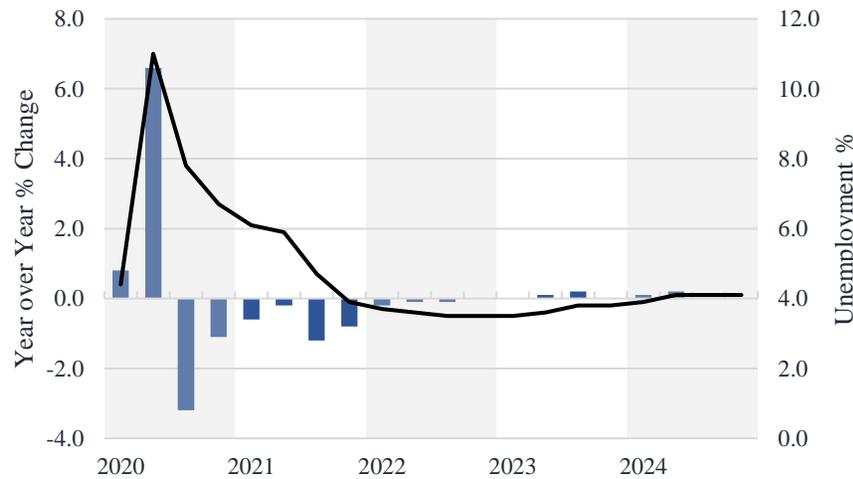


Current quarter GDP is estimated (Source: Atlanta Fed)

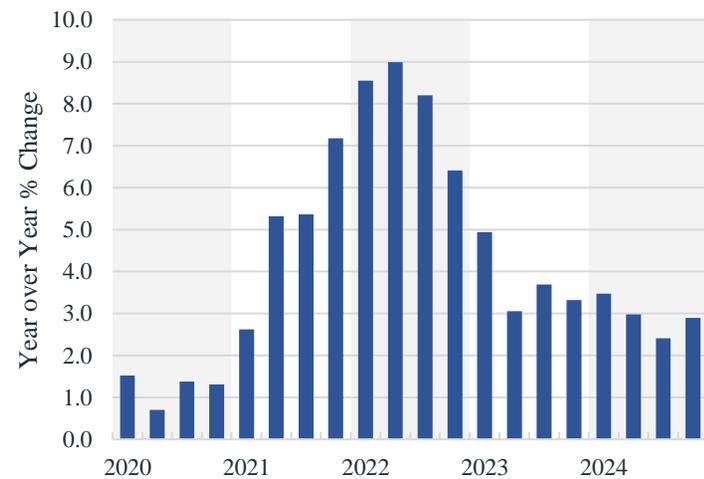
Federal Funds Rate



U.S. Unemployment



Consumer Price Index





Economic and Market Update



U.S. | 1Q 2025

As of December 31, 2024

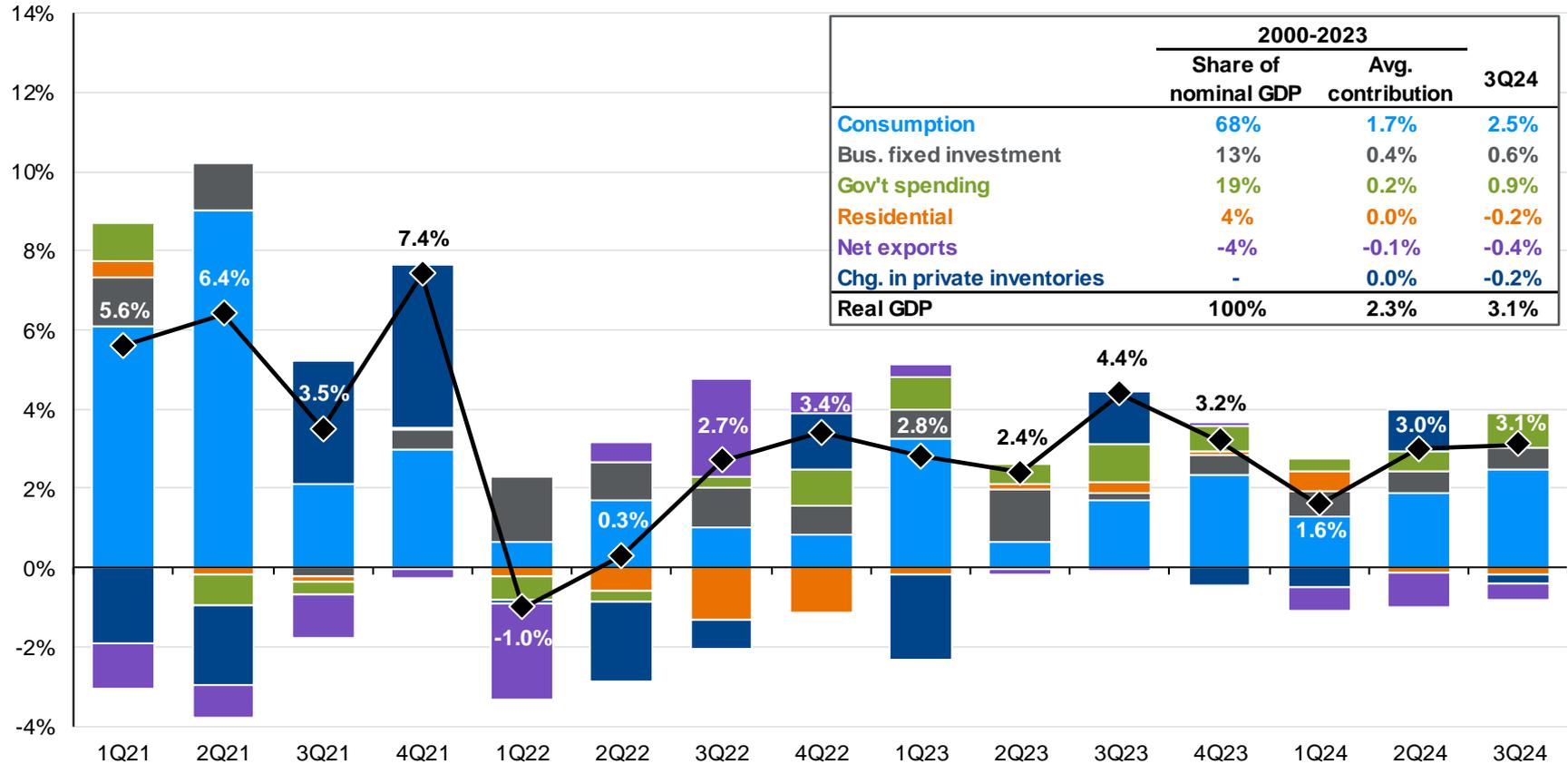


Components of GDP growth

Economy

Contributors to real GDP growth

Quarter-over-quarter, seasonally adjusted annualized rate



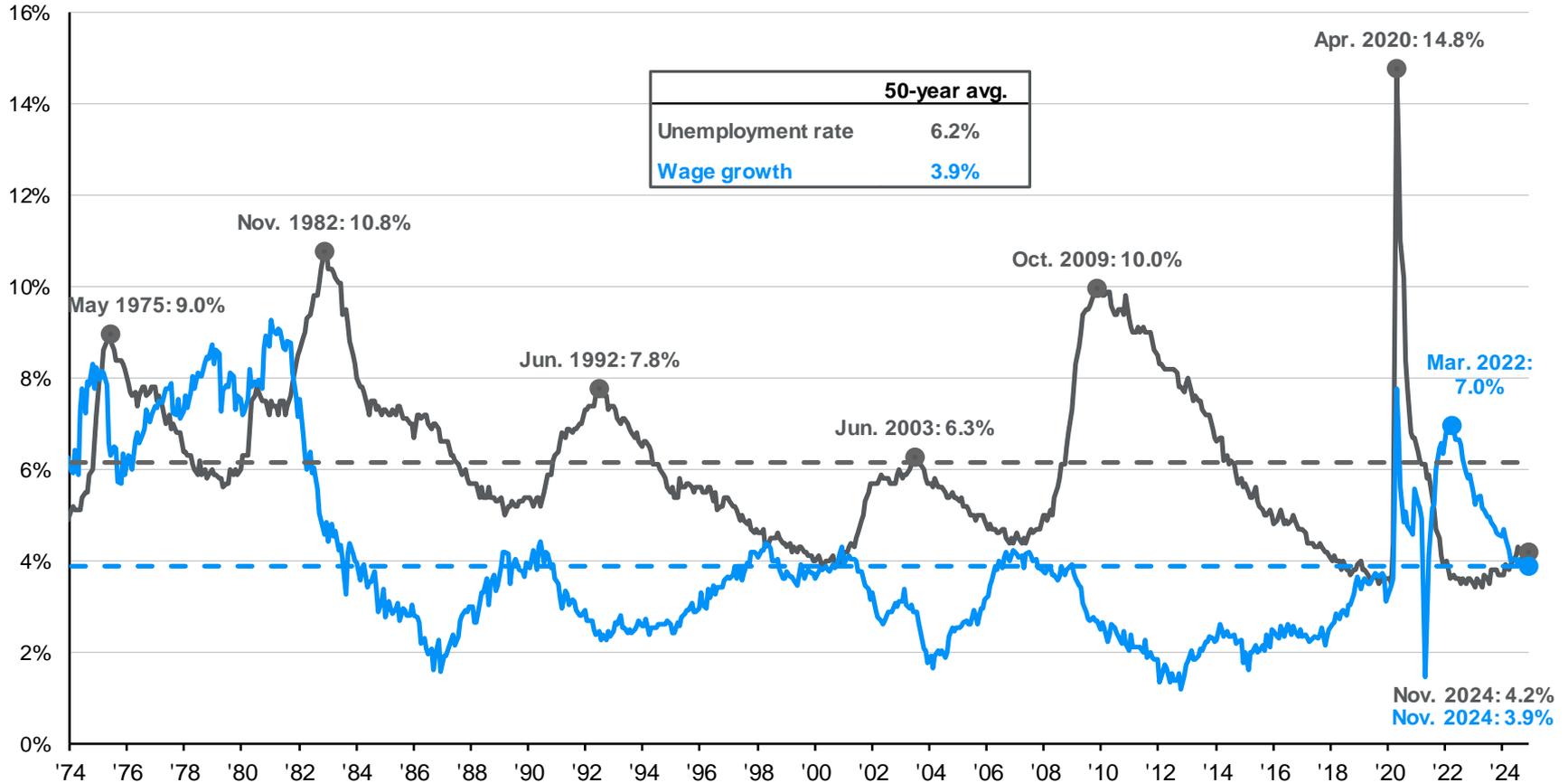
Source: BEA, FactSet, J.P. Morgan Asset Management. Guide to the Markets – U.S. Data are as of December 31, 2024.



Unemployment and wages

Civilian unemployment rate and year-over-year wage growth

Private production and non-supervisory workers, seasonally adjusted, percent



Source: BLS, FactSet, J.P. Morgan Asset Management. Private production and non-supervisory jobs represent just over 80% of total private nonfarm jobs.
Guide to the Markets – U.S. Data are as of December 31, 2024.

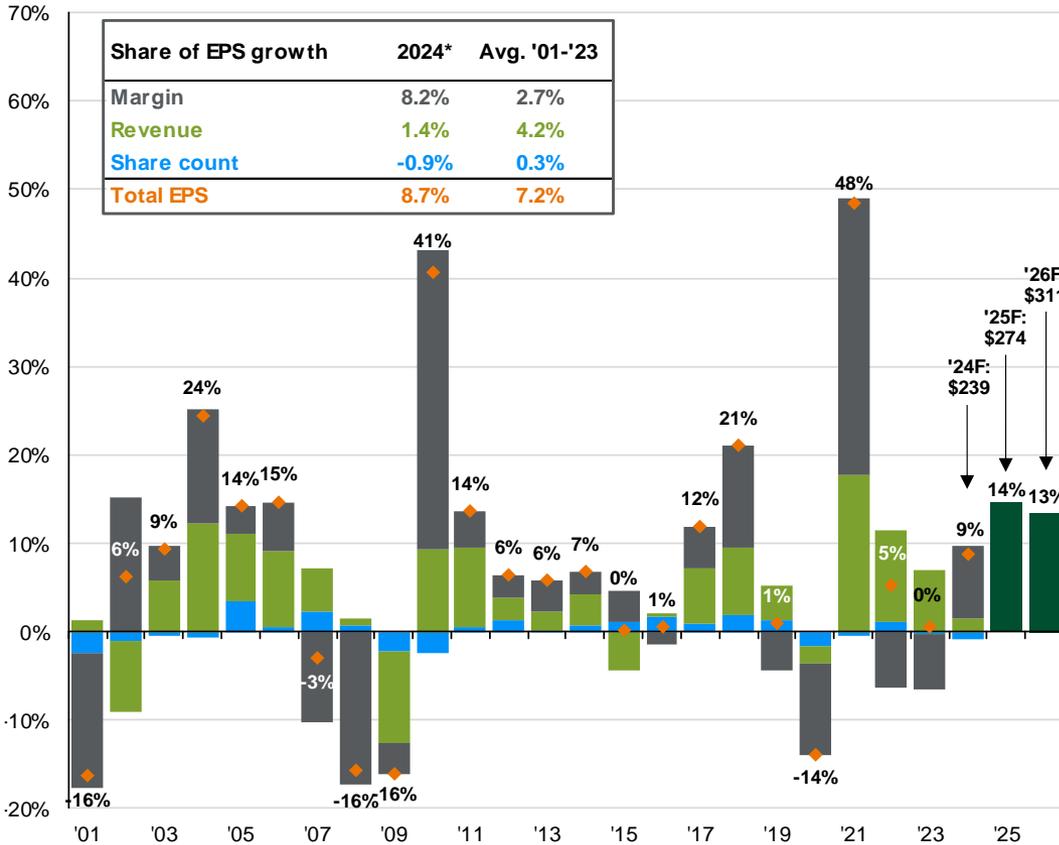


Sources of earnings growth and profit margins

Equities

S&P 500 year-over-year pro forma EPS growth

Annual growth broken into changes in revenue, profit margin and share count



S&P 500 profit margins

Quarterly earnings/sales



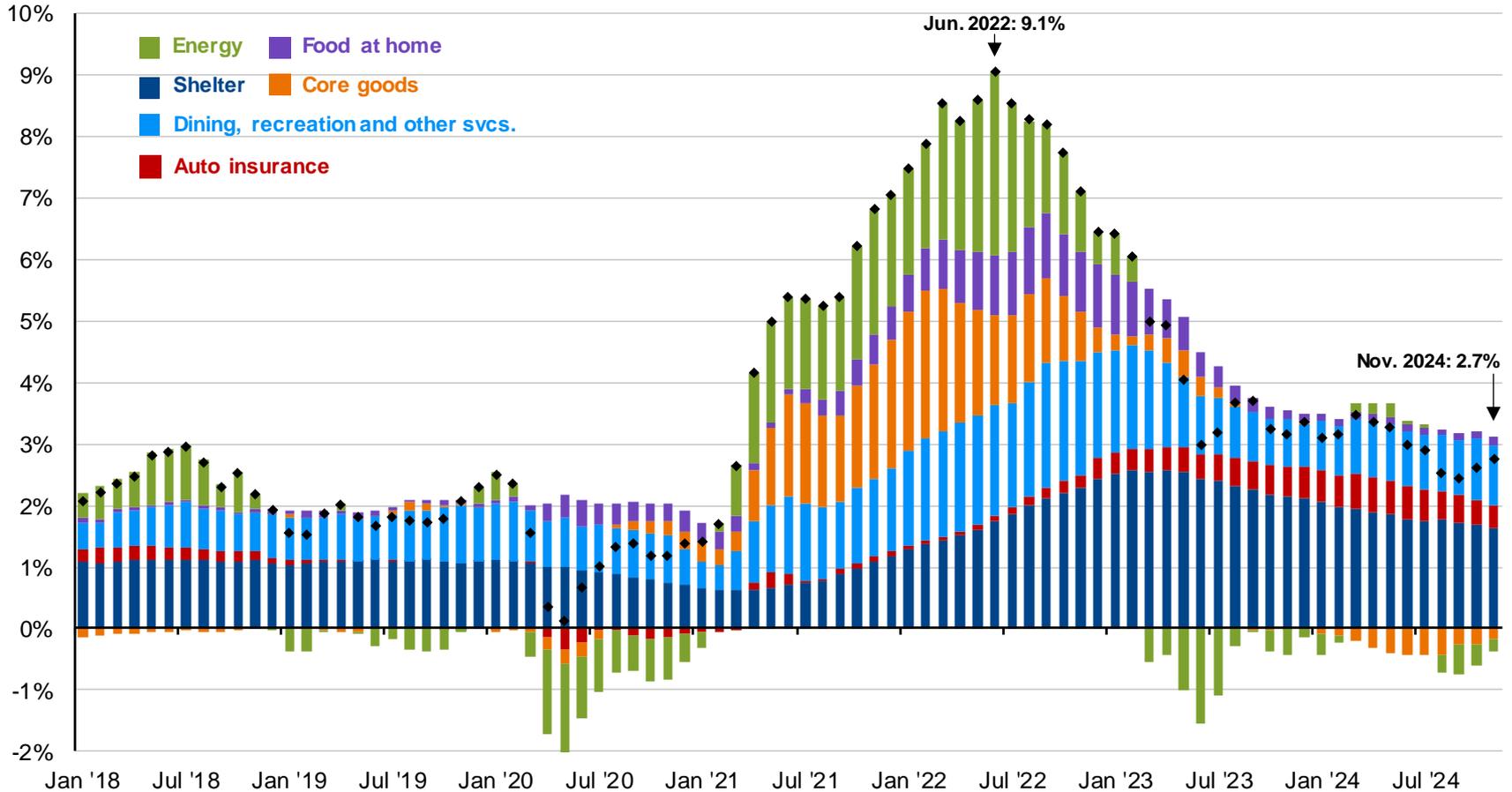
Source: Compustat, FactSet, Standard & Poor's, J.P. Morgan Asset Management.
 Historical EPS levels are based on annual pro forma earnings per share. *2024, 2025 and 2026 EPS growth are based on consensus analyst estimates for each calendar year. Past performance is not indicative of future returns.
Guide to the Markets – U.S. Data are as of December 31, 2024.



Inflation components

Contributors to headline CPI inflation

Contribution to y/y % change in CPI, non-seasonally adjusted



Source: BLS, FactSet, J.P. Morgan Asset Management. Contributions mirror the BLS methodology on Table 7 of the CPI report. Values may not sum to headline CPI figures due to rounding and underlying calculations. "Shelter" includes owners' equivalent rent, rent of primary residence and home insurance. "Food at home" includes alcoholic beverages. *Guide to the Markets - U.S.* Data are as of December 31, 2024.

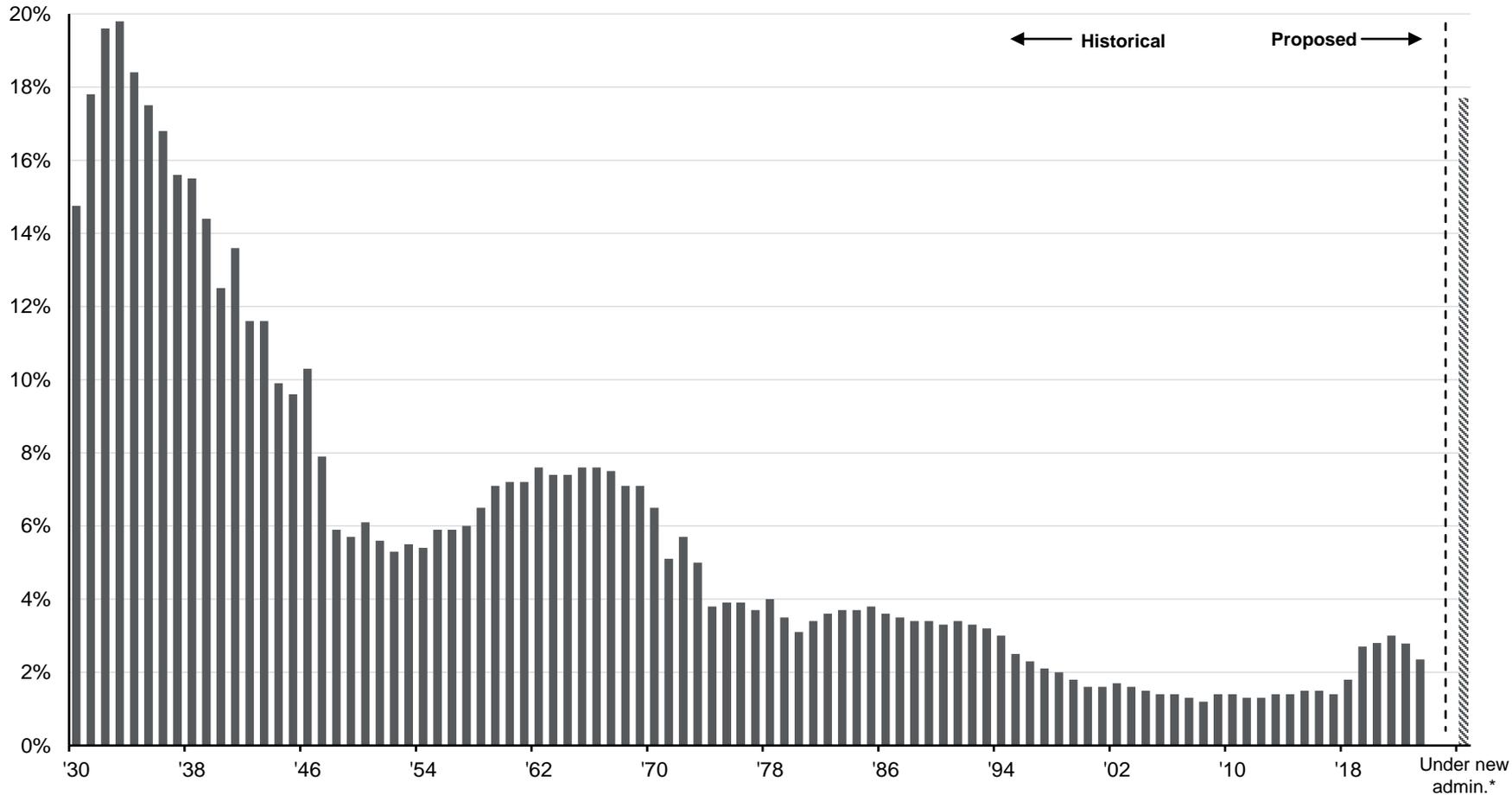


Tariffs on U.S. imports

Economy

Average tariff rate on U.S. goods imports for consumption

Duties collected / value of total goods imports for consumption



Source: Tax Foundation, United States International Trade Commission, U.S. Department of Commerce, J.P. Morgan Asset Management. Imports for consumption: goods brought into a country for direct use or sale in the domestic market. *Estimate is by the Tax Foundation as of October 2024 and assumes a 20% universal tariff as well as a 60% tariff on Chinese imports. May not be updated as of the latest announcements regarding tariffs and U.S. trade policy and is subject to change. Forecasts are based on current data and assumptions about future economic conditions. Actual results may differ materially due to changes in economic, market and other conditions. *Guide to the Markets – U.S.* Data are as of December 31, 2024.

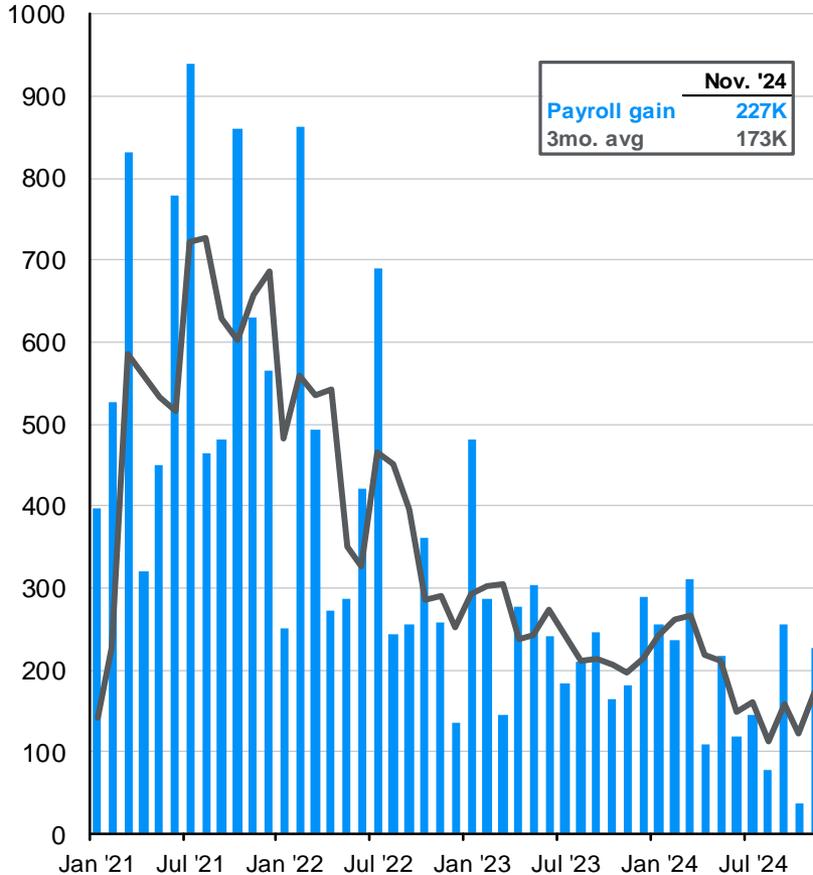


Labor supply

Economy

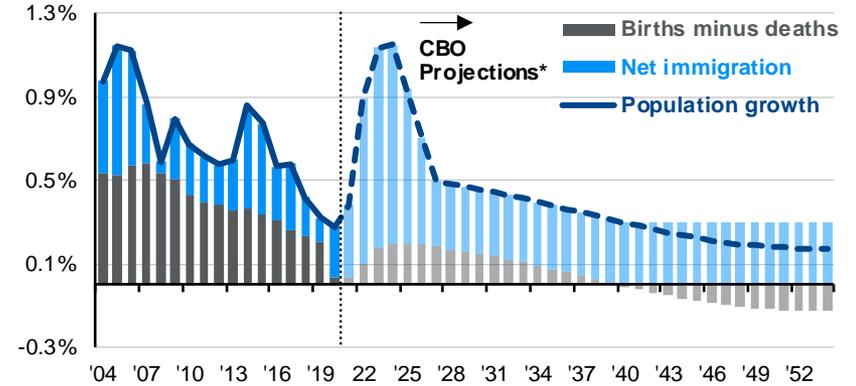
Nonfarm payroll gains

Month-over-month change and 3mo. moving average, SA



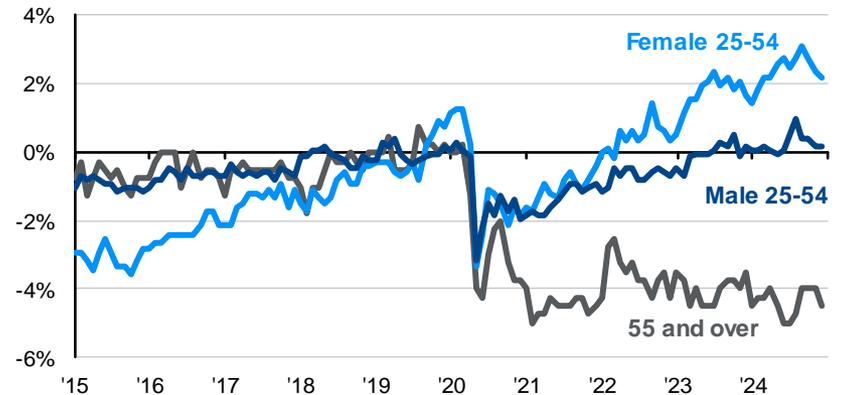
Sources of population growth

Contribution to annual percentage change



Labor force participation rate changes

% change since 2019 average, SA



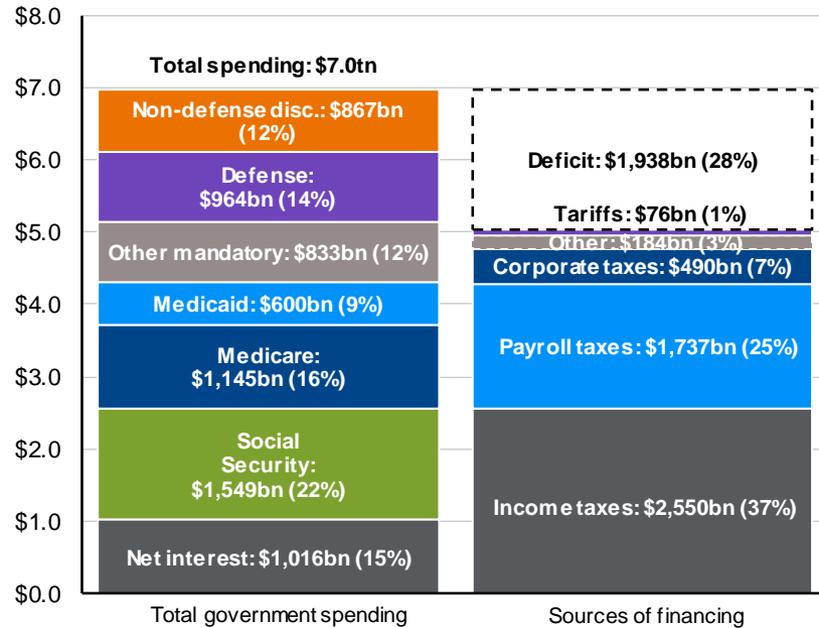
Source: BLS, CBO, FactSet, J.P. Morgan Asset Management.
 *Projections are from the Congressional Budget Office (CBO) Demographic Outlook: 2024 to 2054.
 Guide to the Markets – U.S. Data are as of December 31, 2024.



Federal finances

The 2025 federal budget

USD trillions

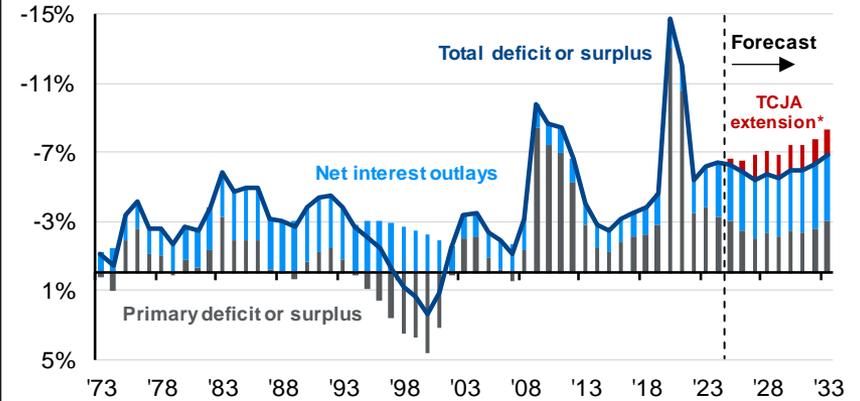


CBO's Baseline economic assumptions

	2024	'25-'26	'27-'28	'29-'34
Real GDP growth	2.9%	2.0%	1.7%	1.8%
10-year Treasury	4.5%	4.0%	3.6%	4.0%
Headline inflation (CPI)	3.2%	2.4%	2.2%	2.2%
Unemployment	3.8%	4.0%	4.3%	4.5%

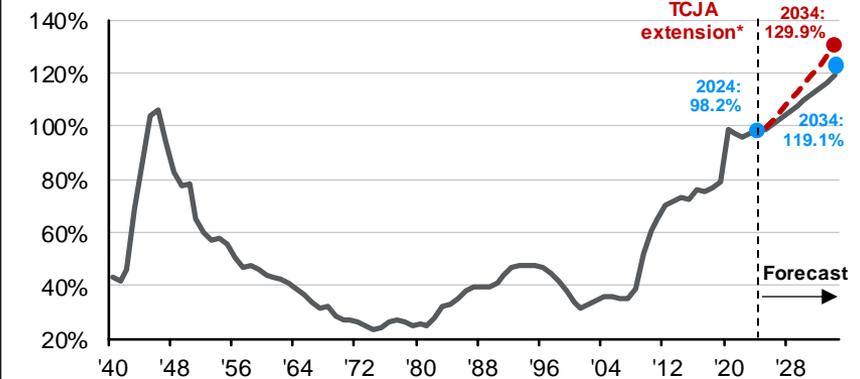
Federal deficit and net interest outlays

% of GDP, 1973-2034, CBO Baseline Forecast



Federal net debt (accumulated deficits)

% of GDP, 1940-2034, CBO Baseline Forecast, end of fiscal year



Source: CBO, J.P. Morgan Asset Management; (Left) Numbers may not sum to 100% due to rounding; (Top and bottom right) BEA, Treasury Department. Estimates are from the Congressional Budget Office (CBO) June 2024 An Update to the Budget Outlook: 2024 to 2034. "Other" spending includes, but is not limited to, health insurance subsidies, income security and federal civilian and military retirement. Years shown are fiscal years. All CBO estimates are adjusted by JPMAM to reflect GDP revisions resulting from the 2024 annual update of the National Economic Accounts. *Adjusted by JPMAM to include estimates from the CBO May 2024 report "Budgetary Outcomes Under Alternative Assumptions About Spending and Revenues" on the extension of TCJA provisions. Forecasts are not a reliable indicator of future performance. Forecasts, projections and other forward-looking statements are based upon current beliefs and expectations. They are for illustrative purposes only and serve as an indication of what may occur. Given the inherent uncertainties and risks associated with forecasts, projections or other forward-looking statements, actual events, results or performance may differ materially from those reflected or contemplated. Guide to the Markets - U.S. Data are as of December 31, 2024.

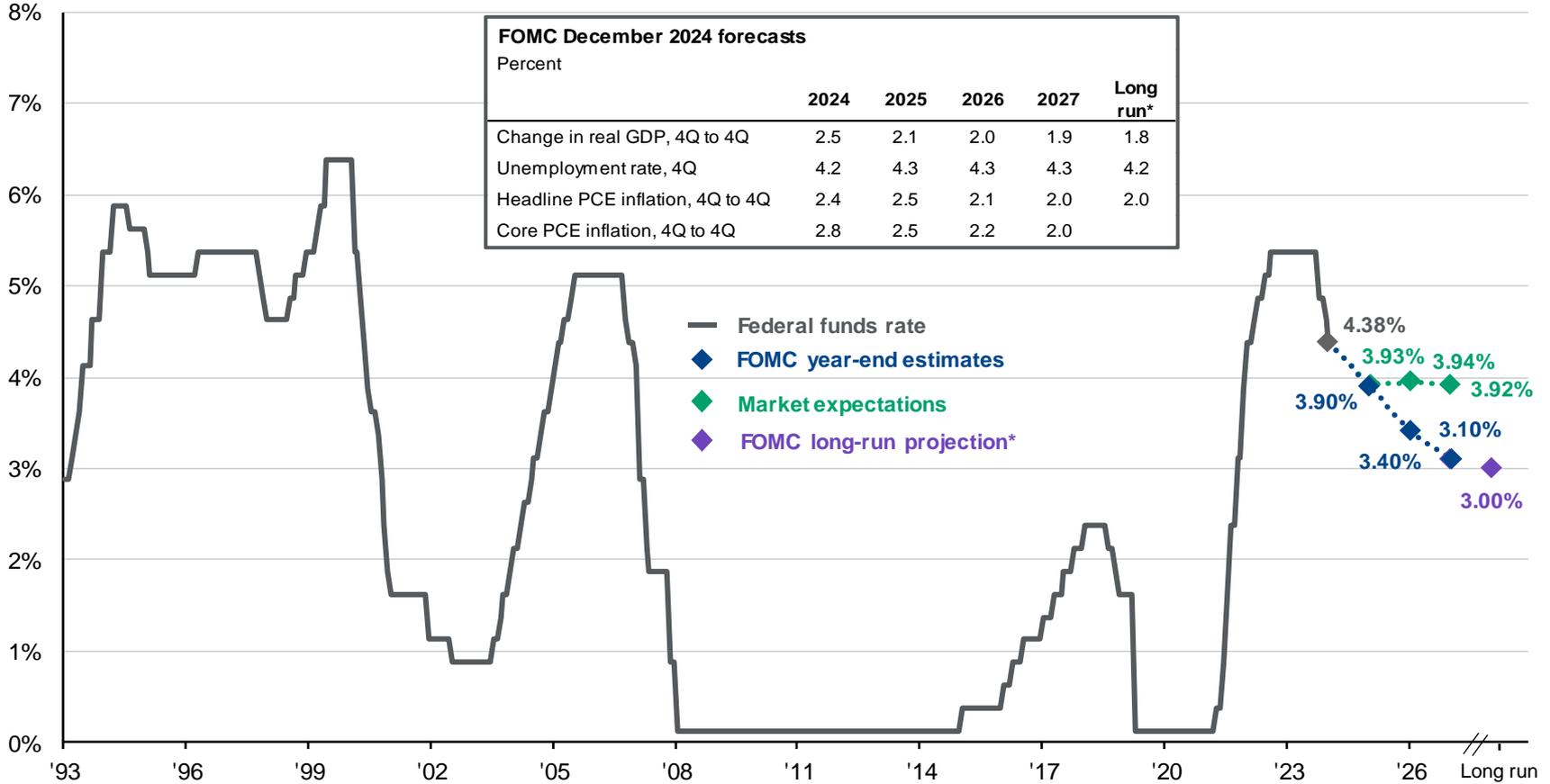


The Fed and interest rates

Fixed Income

Federal funds rate expectations

FOMC and market expectations for the federal funds rate



Source: Bloomberg, FactSet, Federal Reserve, J.P. Morgan Asset Management.

Market expectations are based off of USD Overnight Index Swaps. *Long-run projections are the rates of growth, unemployment and inflation to which a policymaker expects the economy to converge over the next five to six years in absence of further shocks and under appropriate monetary policy. Forecasts are not a reliable indicator of future performance. Forecasts, projections and other forward-looking statements are based upon current beliefs and expectations. They are for illustrative purposes only and serve as an indication of what may occur. Given the inherent uncertainties and risks associated with forecasts, projections or other forward-looking statements, actual events, results or performance may differ materially from those reflected or contemplated. *Guide to the Markets – U.S.* Data are as of December 31, 2024.

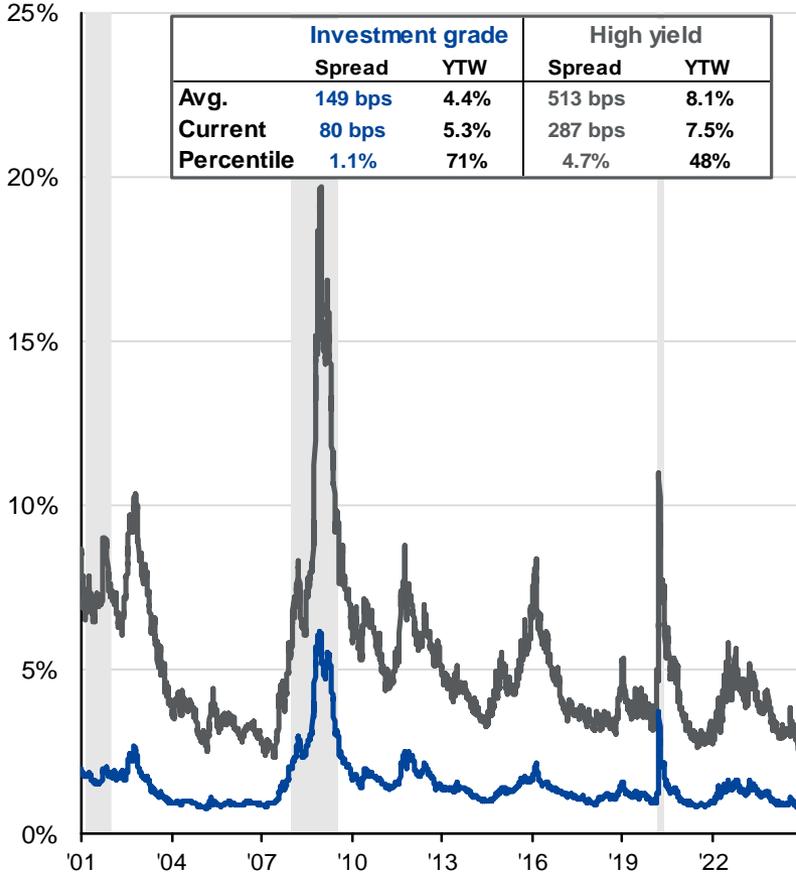


Credit market dynamics

Fixed Income

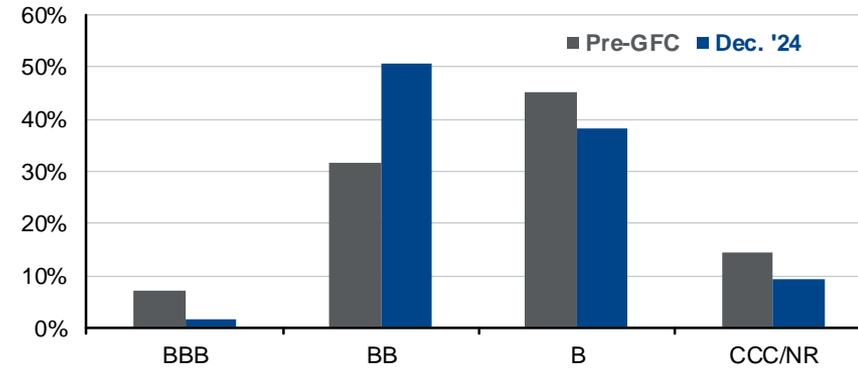
Corporate credit spreads

Option-adjusted spread, 2001 - present



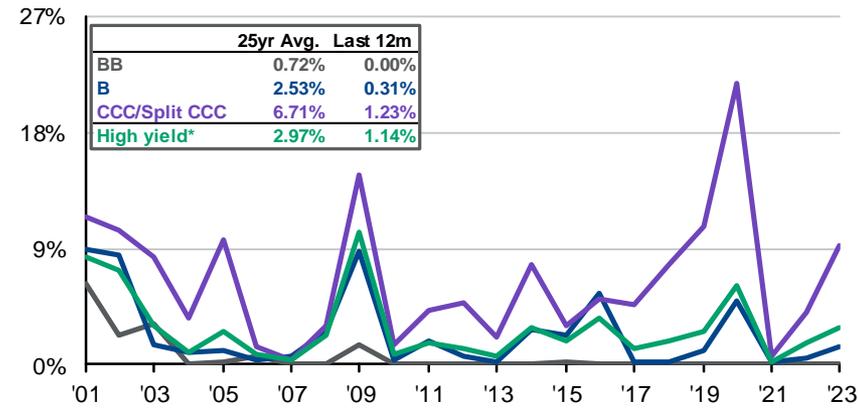
U.S. high yield by credit rating

%, J.P. Morgan Domestic High Yield Index



U.S. high yield default rates

By credit rating



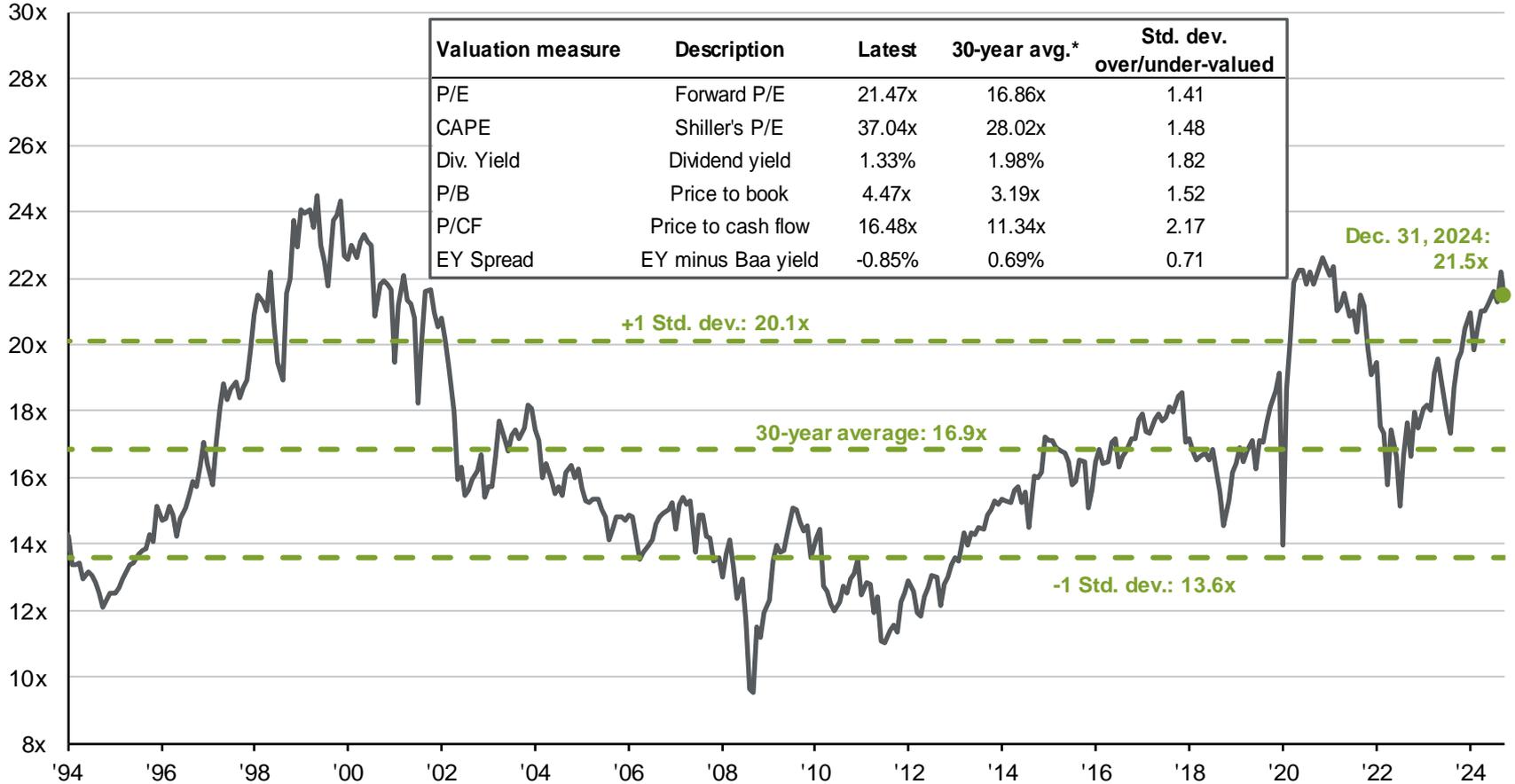
Source: Bloomberg, J.P. Morgan Research, J.P. Morgan Asset Management.
 (Left): U.S. Investment Grade: Bloomberg U.S. Corporate Investment Grade Index; U.S. High Yield: Bloomberg U.S. Aggregate Corporate High Yield Index. (Right): Last 12-month default rates are as of most recent month for which data are available. Default rates shown by crediting rating do not include distressed exchanges and are grouped by rating 12 months prior to default. Bond ratings include distressed split ratings. "NR" stands for not rated. Pre-GFC reflects data as of December 2007. *Aggregate high yield default rate data do include distressed exchanges.
 Guide to the Markets – U.S. Data are as of December 31, 2024.



S&P 500 valuation measures

Equities

S&P 500 Index: Forward P/E ratio



Source: FactSet, FRB, Refinitiv Datastream, Robert Shiller, Standard & Poor's, Thomson Reuters, J.P. Morgan Asset Management.
 Price-to-earnings is price divided by consensus analyst estimates of earnings per share for the next 12 months as provided by IBES since March 1994 and by FactSet since January 2022. Average P/E and standard deviations are calculated using 30 years of history. Shiller's P/E uses trailing 10-years of inflation-adjusted earnings as reported by companies. Dividend yield is calculated as the next 12-months consensus dividend divided by most recent price. Price-to-book ratio is the price divided by book value per share. Price-to-cash flow is price divided by NTM cash flow. EY minus Baa yield is the forward earnings yield (consensus analyst estimates of EPS over the next 12 months divided by price) minus the Bloomberg US corporate Baa yield since December 2008 and interpolated using the Moody's Baa seasoned corporate bond yield for values beforehand. Std. dev. over-/under-valued is calculated using the average and standard deviation over 30 years for each measure. *Averages and standard deviations for dividend yield and P/CF are since November 1995 due to data availability.
 Guide to the Markets – U.S. Data are as of December 31, 2024.



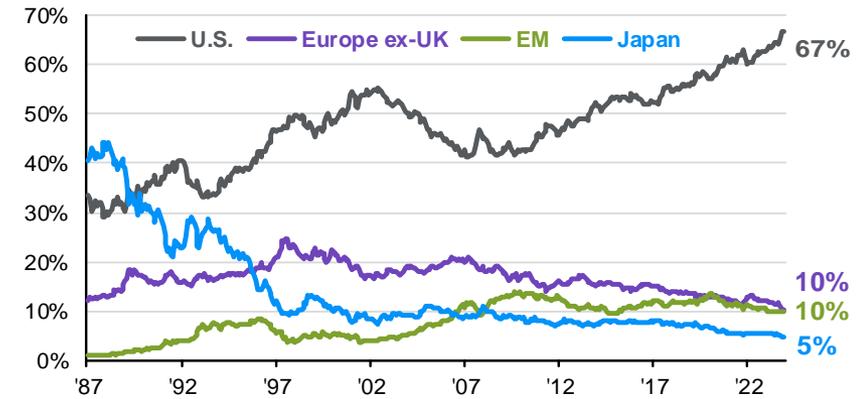
Global equity markets

International

Returns	2024		2023		15-years	
	Local	USD	Local	USD	Ann.	Beta
Regions						
U.S. (S&P 500)	-	25.0	-	26.3	13.9	1.0
AC World ex-U.S.	13.2	6.1	14.7	16.2	5.2	1.0
EAFE	11.8	4.3	16.8	18.9	5.7	1.0
Europe ex-UK	8.1	1.0	17.3	22.7	6.0	1.1
Emerging markets	13.7	8.1	10.3	10.3	3.4	1.0
Selected Countries						
Japan	21.2	8.7	29.0	20.8	6.3	0.8
United Kingdom	9.5	7.5	7.7	14.1	4.9	1.0
France	1.8	-4.6	18.1	22.3	5.8	1.2
Canada	23.0	12.7	13.3	16.4	5.9	1.1
Germany	18.4	11.0	19.8	24.0	5.7	1.3
China	19.8	19.7	-10.6	-11.0	2.5	0.9
Taiwan	44.3	35.1	31.1	31.3	12.0	1.0
India	15.7	12.4	22.0	21.3	6.9	0.9
Brazil	-11.4	-29.5	22.7	33.4	-2.5	1.3

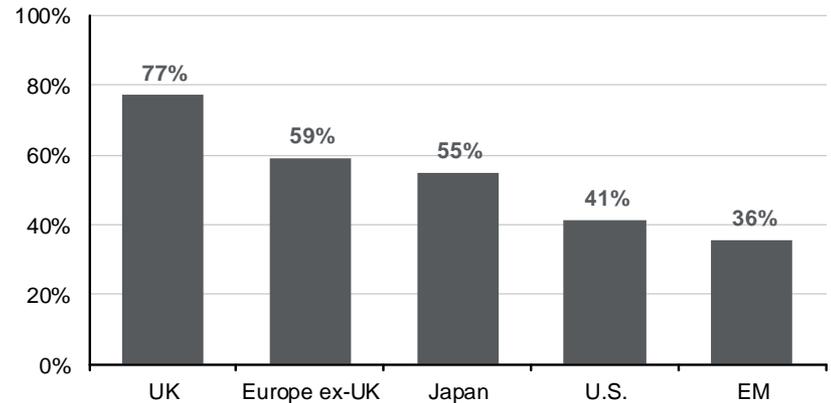
Share of global market capitalization

% weight in the MSCI All Country World Index, USD, monthly



Revenue exposure vs. country of listing

% of total revenue derived from foreign countries



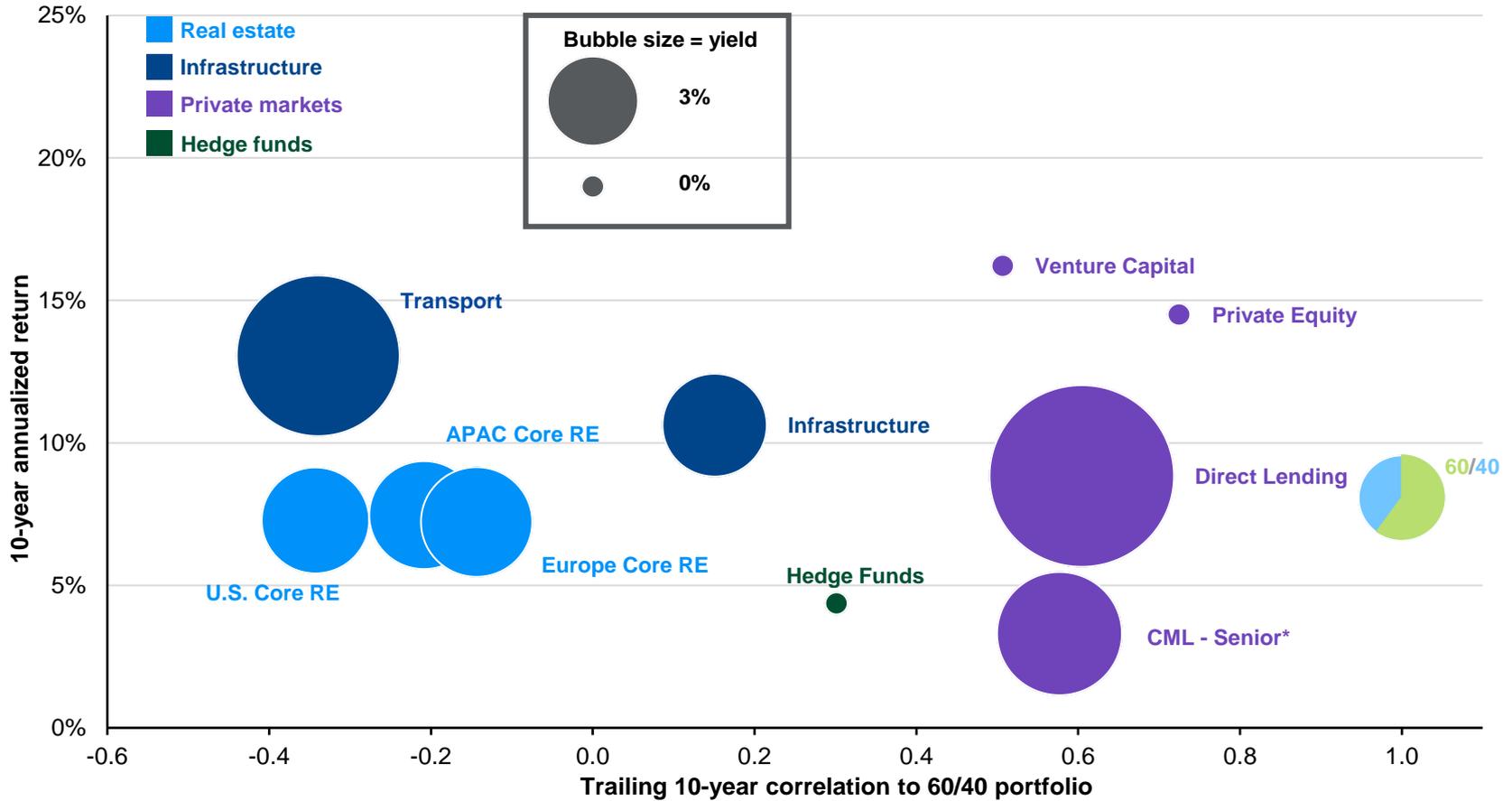
Source: FactSet, MSCI, Standard & Poor's, J.P. Morgan Asset Management. (Left) All return values are MSCI Total Return Index (Gross) data. 15-year history based on USD returns. 15-year return and beta figures are calculated using a rolling 12-month time period ending with the previous month-end. Beta is for monthly returns relative to the MSCI All Country World Index. Annualized volatility is calculated as the standard deviation of quarterly returns multiplied by the square root of four. Chart is for illustrative purposes only. Please see disclosure page for index definitions. Past performance is not a reliable indicator of current and future results. (Bottom right) Revenue exposure data are as of the previous quarter-end. *Guide to the Markets - U.S.* Data are as of December 31, 2024.



Alternatives: Correlations, returns and yields

Correlations, returns and yields

10-year correlations and 10-year annualized total returns, 3Q14 – 2Q24



Alternatives

Source: Burgiss, Cliffwater, FactSet, Gilberto-Levy, HFRI, MSCI, NCREIF, J.P. Morgan Asset Management. Correlations are based on quarterly returns over the past 10 years from 3Q14-2Q24. A 60/40 portfolio is comprised of 60% stocks and 40% bonds. Stocks are represented by the S&P 500 Total Return Index. Bonds are represented by the Bloomberg U.S. Aggregate Total Return Index. 10-year annualized returns are calculated from 1Q14-4Q23. Indices and data used for alternative asset class returns and yields are as described on pages 12, 13 and 17 of the *Guide to Alternatives*. Yields are based on latest available data as described on page 10 of the *Guide to Alternatives*. *CML is commercial mortgage loans.

This slide comes from our [Guide to Alternatives](#).

Guide to the Markets – U.S. Data are as of December 31, 2024.



J.P. Morgan Asset Management – Index definitions

GTM

U.S.

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All indexes are unmanaged and an individual cannot invest directly in an index. Index returns do not include fees or expenses.

Equities:

The **Dow Jones Industrial Average** is a price-weighted average of 30 actively traded blue-chip U.S. stocks.

The **MSCI ACWI (All Country World Index)** is a free float-adjusted market capitalization weighted index that is designed to measure the equity market performance of developed and emerging markets.

The **MSCI EAFE Index (Europe, Australasia, Far East)** is a free float-adjusted market capitalization index that is designed to measure the equity market performance of developed markets, excluding the US & Canada.

The **MSCI Emerging Markets Index** is a free float-adjusted market capitalization index that is designed to measure equity market performance in the global emerging markets.

The **MSCI Europe Index** is a free float-adjusted market capitalization index that is designed to measure developed market equity performance in Europe.

The **MSCI Pacific Index** is a free float-adjusted market capitalization index that is designed to measure equity market performance in the Pacific region.

The **Russell 1000 Index**® measures the performance of the 1,000 largest companies in the Russell 3000.

The **Russell 1000 Growth Index**® measures the performance of those Russell 1000 companies with higher price-to-book ratios and higher forecasted growth values.

The **Russell 1000 Value Index**® measures the performance of those Russell 1000 companies with lower price-to-book ratios and lower forecasted growth values.

The **Russell 2000 Index**® measures the performance of the 2,000 smallest companies in the Russell 3000 Index.

The **Russell 2000 Growth Index**® measures the performance of those Russell 2000 companies with higher price-to-book ratios and higher forecasted growth values.

The **Russell 2000 Value Index**® measures the performance of those Russell 2000 companies with lower price-to-book ratios and lower forecasted growth values.

The **Russell 3000 Index**® measures the performance of the 3,000 largest U.S. companies based on total market capitalization.

The **Russell Midcap Index**® measures the performance of the 800 smallest companies in the Russell 1000 Index.

The **Russell Midcap Growth Index**® measures the performance of those Russell Midcap companies with higher price-to-book ratios and higher forecasted growth values. The stocks are also members of the Russell 1000 Growth index.

The **Russell Midcap Value Index**® measures the performance of those Russell Midcap companies with lower price-to-book ratios and lower forecasted growth values. The stocks are also members of the Russell 1000 Value index.

The **S&P 500 Index** is widely regarded as the best single gauge of the U.S. equities market. The index includes a representative sample of 500 leading companies in leading industries of the U.S. economy. The **S&P 500 Index** focuses on the large-cap segment of the market; however, since it includes a significant portion of the total value of the market, it also represents the market.

Fixed income:

The **Bloomberg 1-3 Month U.S. Treasury Bill Index** includes all publicly issued zero-coupon US Treasury Bills that have a remaining maturity of less than 3 months and more than 1 month, are rated investment grade, and have \$250 million or more of outstanding face value. In addition, the securities must be denominated in U.S. dollars and must be fixed rate and non convertible.

The **Bloomberg Global High Yield Index** is a multi-currency flagship measure of the global high yield debt market. The index represents the union of the US High Yield, the Pan-European High Yield, and Emerging Markets (EM) Hard Currency High Yield Indices. The high yield and emerging markets sub-components are mutually exclusive. Until January 1, 2011, the index also included CMBS high yield securities.

The **Bloomberg Municipal Index**: consists of a broad selection of investment-grade general obligation and revenue bonds of maturities ranging from one year to 30 years. It is an unmanaged index representative of the tax-exempt bond market.

The **Bloomberg US Dollar Floating Rate Note (FRN) Index** provides a measure of the U.S. dollar denominated floating rate note market.

The **Bloomberg US Corporate Investment Grade Index** is an unmanaged index consisting of publicly issued US Corporate and specified foreign debentures and secured notes that are rated investment grade (Baa3/BBB or higher) by at least two ratings agencies, have at least one year to final maturity and have at least \$250 million par amount outstanding. To qualify, bonds must be SEC-registered.

The **Bloomberg US High Yield Index** covers the universe of fixed rate, non-investment grade debt. Eurobonds and debt issues from countries designated as emerging markets (sovereign rating of Baa1/BBB-/BBB+ and below using the middle of Moody's, S&P, and Fitch) are excluded, but Canadian and global bonds (SEC registered) of issuers in non-EMG countries are included.

The **Bloomberg US Mortgage Backed Securities Index** is an unmanaged index that measures the performance of investment grade fixed-rate mortgage backed pass-through securities of GNMA, FNMA and FHLMC.

The **Bloomberg US TIPS Index** consists of Inflation-Protection securities issued by the U.S. Treasury.

The **J.P. Morgan Emerging Market Bond Global Index (EMBI)** includes U.S. dollar denominated Brady bonds, Eurobonds, traded loans and local market debt instruments issued by sovereign and quasi-sovereign entities.

The **J.P. Morgan Domestic High Yield Index** is designed to mirror the investable universe of the U.S. dollar domestic high yield corporate debt market.

The **J.P. Morgan Corporate Emerging Markets Bond Index Broad Diversified (CEMBI Broad Diversified)** is an expansion of the **J.P. Morgan Corporate Emerging Markets Bond Index (CEMBI)**. The CEMBI is a market capitalization weighted index consisting of U.S. dollar denominated emerging market corporate bonds.

The **J.P. Morgan Emerging Markets Bond Index Global Diversified (EMBI Global Diversified)** tracks total returns for U.S. dollar-denominated debt instruments issued by emerging market sovereign and quasi-sovereign entities: Brady bonds, loans, Eurobonds. The index limits the exposure of some of the larger countries.

The **J.P. Morgan GBI EM Global Diversified** tracks the performance of local currency debt issued by emerging market governments, whose debt is accessible by most of the international investor base.

The **U.S. Treasury Index** is a component of the U.S. Government index.



J.P. Morgan Asset Management – Definitions

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Other asset classes:

The **Alerian MLP Index** is a composite of the 50 most prominent energy Master Limited Partnerships (MLPs) that provides investors with an unbiased, comprehensive benchmark for the asset class.

The **Bloomberg Commodity Index** and related sub-indices are composed of futures contracts on physical commodities and represents twenty two separate commodities traded on U.S. exchanges, with the exception of aluminum, nickel, and zinc

The **Cambridge Associates U.S. Global Buyout and Growth Index®** is based on data compiled from 1,768 global (U.S. & ex-U.S.) buyout and growth equity funds, including fully liquidated partnerships, formed between 1986 and 2013.

The **CS/Tremont Hedge Fund Index** is compiled by Credit Suisse Tremont Index, LLC. It is an asset-weighted hedge fund index and includes only funds, as opposed to separate accounts. The Index uses the Credit Suisse/Tremont database, which tracks over 4500 funds, and consists only of funds with a minimum of US\$50 million under management, a 12-month track record, and audited financial statements. It is calculated and rebalanced on a monthly basis, and shown net of all performance fees and expenses. It is the exclusive property of Credit Suisse Tremont Index, LLC.

The **HFRI Monthly Indices (HFRI)** are equally weighted performance indexes, utilized by numerous hedge fund managers as a benchmark for their own hedge funds. The HFRI are broken down into 4 main strategies, each with multiple sub strategies. All single-manager HFRI Index constituents are included in the HFRI Fund Weighted Composite, which accounts for over 2200 funds listed on the internal HFR Database.

The **NAREIT EQUITY REIT Index** is designed to provide the most comprehensive assessment of overall industry performance, and includes all tax-qualified real estate investment trusts (REITs) that are listed on the NYSE, the American Stock Exchange or the NASDAQ National Market List.

The **NFI-ODCE**, short for NCREIF Fund Index -Open End Diversified Core Equity, is an index of investment returns reporting on both a historical and current basis the results of 33 open-end commingled funds pursuing a core investment strategy, some of which have performance histories dating back to the 1970s. The NFI-ODCE Index is capitalization-weighted and is reported gross of fees. Measurement is time-weighted.

Definitions:

Investing in **alternative assets** involves higher risks than traditional investments and is suitable only for sophisticated investors. Alternative investments involve greater risks than traditional investments and should not be deemed a complete investment program. They are not tax efficient and an investor should consult with his/her tax advisor prior to investing. Alternative investments have higher fees than traditional investments and they may also be highly leveraged and engage in speculative investment techniques, which can magnify the potential for investment loss or gain. The value of the investment may fall as well as rise and investors may get back less than they invested.

Bonds are subject to interest rate risks. Bond prices generally fall when interest rates rise.

Investments in **commodities** may have greater volatility than investments in traditional securities, particularly if the instruments involve leverage. The value of commodity-linked derivative instruments may be affected by changes in overall market movements, commodity index volatility, changes in interest rates, or factors affecting a particular industry or commodity, such as drought, floods, weather, livestock disease, embargoes, tariffs and international economic, political and regulatory developments. Use of leveraged commodity-linked derivatives creates an opportunity for increased return but, at the same time, creates the possibility for greater loss.

Derivatives may be riskier than other types of investments because they may be more sensitive to changes in economic or market conditions than other types of investments and could result in losses that significantly exceed the original investment. The use of derivatives may not be successful, resulting in investment losses, and the cost of such strategies may reduce investment returns.

Distressed Restructuring Strategies employ an investment process focused on corporate fixed income instruments, primarily on corporate credit instruments of companies trading at significant discounts to their value at issuance or obliged (par value) at maturity as a result of either formal bankruptcy proceeding or financial market perception of near term proceedings.

Investments in **emerging markets** can be more volatile. The normal risks of investing in foreign countries are heightened when investing in emerging markets. In addition, the small size of securities markets and the low trading volume may lead to a lack of liquidity, which leads to increased volatility. Also, emerging markets may not provide adequate legal protection for private or foreign investment or private property.

The price of **equity securities** may rise, or fall because of changes in the broad market or changes in a company's financial condition, sometimes rapidly or unpredictably. These price movements may result from factors affecting individual companies, sectors or industries, or the securities market as a whole, such as changes in economic or political conditions. Equity securities are subject to "stock market risk" meaning that stock prices in general may decline over short or extended periods of time.

Equity market neutral strategies employ sophisticated quantitative techniques of analyzing price data to ascertain information about future price movement and relationships between securities, select securities for purchase and sale. Equity Market Neutral Strategies typically maintain characteristic net equity market exposure no greater than 10% long or short.

Global macro strategies trade a broad range of strategies in which the investment process is predicated on movements in underlying economic variables and the impact these have on equity, fixed income, hard currency and commodity markets.

International investing involves a greater degree of risk and increased volatility. Changes in currency exchange rates and differences in accounting and taxation policies outside the U.S. can raise or lower returns. Some overseas markets may not be as politically and economically stable as the United States and other nations.

There is no guarantee that the use of **long and short positions** will succeed in limiting an investor's exposure to domestic stock market movements, capitalization, sector swings or other risk factors. Using long and short selling strategies may have higher portfolio turnover rates. Short selling involves certain risks, including additional costs associated with covering short positions and a possibility of unlimited loss on certain short sale positions.

Merger arbitrage strategies which employ an investment process primarily focused on opportunities in equity and equity related instruments of companies which are currently engaged in a corporate transaction.

Mid-capitalization investing typically carries more risk than investing in well-established "blue-chip" companies. Historically, mid-cap companies' stock has experienced a greater degree of market volatility than the average stock.

Price to forward earnings is a measure of the price-to-earnings ratio (P/E) using forecasted earnings. **Price to book value** compares a stock's market value to its book value. **Price to cash flow** is a measure of the market's expectations of a firm's future financial health. **Price to dividends** is the ratio of the price of a share on a stock exchange to the dividends per share paid in the previous year, used as a measure of a company's potential as an investment.

Real estate investments may be subject to a higher degree of market risk because of concentration in a specific industry, sector or geographical sector. Real estate investments may be subject to risks including, but not limited to, declines in the value of real estate, risks related to general and economic conditions, changes in the value of the underlying property owned by the trust and defaults by borrower.

Relative Value Strategies maintain positions in which the investment thesis is predicated on realization of a valuation discrepancy in the relationship between multiple securities.

Small-capitalization investing typically carries more risk than investing in well-established "blue-chip" companies since smaller companies generally have a higher risk of failure. Historically, smaller companies' stock has experienced a greater degree of market volatility than the average stock.



J.P. Morgan Asset Management – Risks & disclosures

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Unless otherwise stated, all Data are as of December 31, 2024 or most recently available.

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