



National Economic Indicators

January 8, 2024



Table of Contents

GDP		<i>Release Date</i>	<i>Latest Period</i>	<i>Page</i>
	<i>Table: Real Gross Domestic Product</i>	Dec-21-2023 08:31	Q3-2023	4
	Real Gross Domestic Product	Dec-21-2023 08:31	Q3-2023	5
	Decomposition of Real Gross Domestic Product	Dec-21-2023 08:31	Q3-2023	6
Households				
	Retail Sales	Dec-14-2023 08:30	Nov-2023	7
	Consumer Spending and Income	Dec-22-2023 08:30	Nov-2023	8
	Sales of Automobiles and Light Trucks	Jan-04-2024 12:32	Dec-2023	9
	Personal Saving Rate	Dec-22-2023 08:30	Nov-2023	10
	Household Net Worth	Dec-07-2023 12:13	Q3-2023	11
	Existing Single-Family Home Sales	Dec-20-2023 10:01	Nov-2023	12
	New Single-Family Home Sales	Dec-22-2023 10:00	Nov-2023	13
	Private Single-Family Housing Starts & Permits	Dec-19-2023 08:30	Nov-2023	14
	Private Multi-Family Housing Starts & Permits	Dec-19-2023 08:30	Nov-2023	15
Business Investment				
	Real Investment in Nonresidential Structures	Dec-21-2023 08:31	Q3-2023	16
	Real Private Construction Put in Place	Jan-02-2024 10:01	Nov-2023	17
	Real Nonresidential Fixed Investment	Dec-21-2023 08:31	Q3-2023	18
	Real Investment in Equipment	Dec-21-2023 08:31	Q3-2023	19
	Real Investment in Intellectual Property	Dec-21-2023 08:31	Q3-2023	20
Trade				
	Balance of International Trade	Dec-06-2023 08:30	Oct-2023	21
	Exchange Value of the USD	Dec-26-2023 09:02	Dec-2023	22
Manufacturing				
	Industrial Production	Dec-15-2023 09:15	Nov-2023	23
	Capacity Utilization Rate: Manufacturing	Dec-15-2023 09:15	Nov-2023	24
	Indexes of Manufacturing Activity	Jan-03-2024 10:02	Dec-2023	25
	Indexes of Non-Manufacturing Activity	Jan-05-2024 10:01	Dec-2023	26
	<i>Table: ISM Business Survey Indexes</i>	Jan-03-2024 10:02	Dec-2023	27
	Manufacturers' New Orders	Jan-05-2024 10:00	Nov-2023	28
	Core Capital Goods	Jan-05-2024 10:00	Nov-2023	29
	Business Inventory/Sales Ratios	Dec-07-2023 10:01	Oct-2023	30

(continued)

Labor Market	<i>Release Date</i>	<i>Latest Period</i>	<i>Page</i>
Nonfarm Payroll Employment	Jan-05-2024 08:31	Dec-2023	31,32
Unemployment Rate Measures	Jan-05-2024 08:31	Dec-2023	33,34
Non-Employment Index	Dec-15-2023 16:42	Nov-2023	35
Labor Market Flows	Jan-03-2024 10:00	Nov-2023	36
Labor Force Participation	Jan-05-2024 08:31	Dec-2023	37
Aggregate Weekly Hours Index	Jan-05-2024 08:31	Dec-2023	38
Average Hourly Earnings	Jan-05-2024 08:31	Dec-2023	39
Employment Cost Index	Oct-31-2023 08:30	Q3-2023	40
Business Labor Productivity	Dec-06-2023 08:30	Q3-2023	41
Unit Labor Costs, Nonfarm Business	Dec-06-2023 08:30	Q3-2023	42
Inflation			
<i>Table</i> : Gauges of Inflation	Dec-31-2023 15:44	Dec-2023	43
Expenditure Price Indexes	Dec-22-2023 08:30	Nov-2023	44,45
Consumer Price Indexes	Dec-12-2023 08:32	Nov-2023	46
Producer Price Indexes	Dec-13-2023 08:30	Nov-2023	47
Commodity Price Indexes	Dec-31-2023 15:44	Dec-2023	48
Crude Oil Prices	Jan-08-2024	08-Jan-2024	49
TIPS Inflation Compensation	Jan-02-2024 16:53	29-Dec-2023	50
Monetary Policy & Financial Markets			
Federal Reserve System Assets	Jan-04-2024 16:31	03-Jan-2024	51
Monetary Policy Instruments	Jan-05-2024 18:26	05-Jan-2024	52
Real Federal Funds Rate	Dec-22-2023 08:30	Dec-2023	53
FOMC Statement			54,55
Fed Funds Futures	Jan-08-2024	08-Jan-2024	56
SEP: Federal Funds Rate			57
Monetary Base	Jan-04-2024 16:31	03-Jan-2024	58
M2	Dec-26-2023 13:19	Nov-2023	59
Money Market Rates	Jan-05-2024 18:26	05-Jan-2024	60
Capital Market Rates	Jan-05-2024 18:26	05-Jan-2024	61
Treasury Yield Curve	Jan-05-2024 16:07	05-Jan-2024	62
Risk Premium	Jan-05-2024 18:26	05-Jan-2024	63

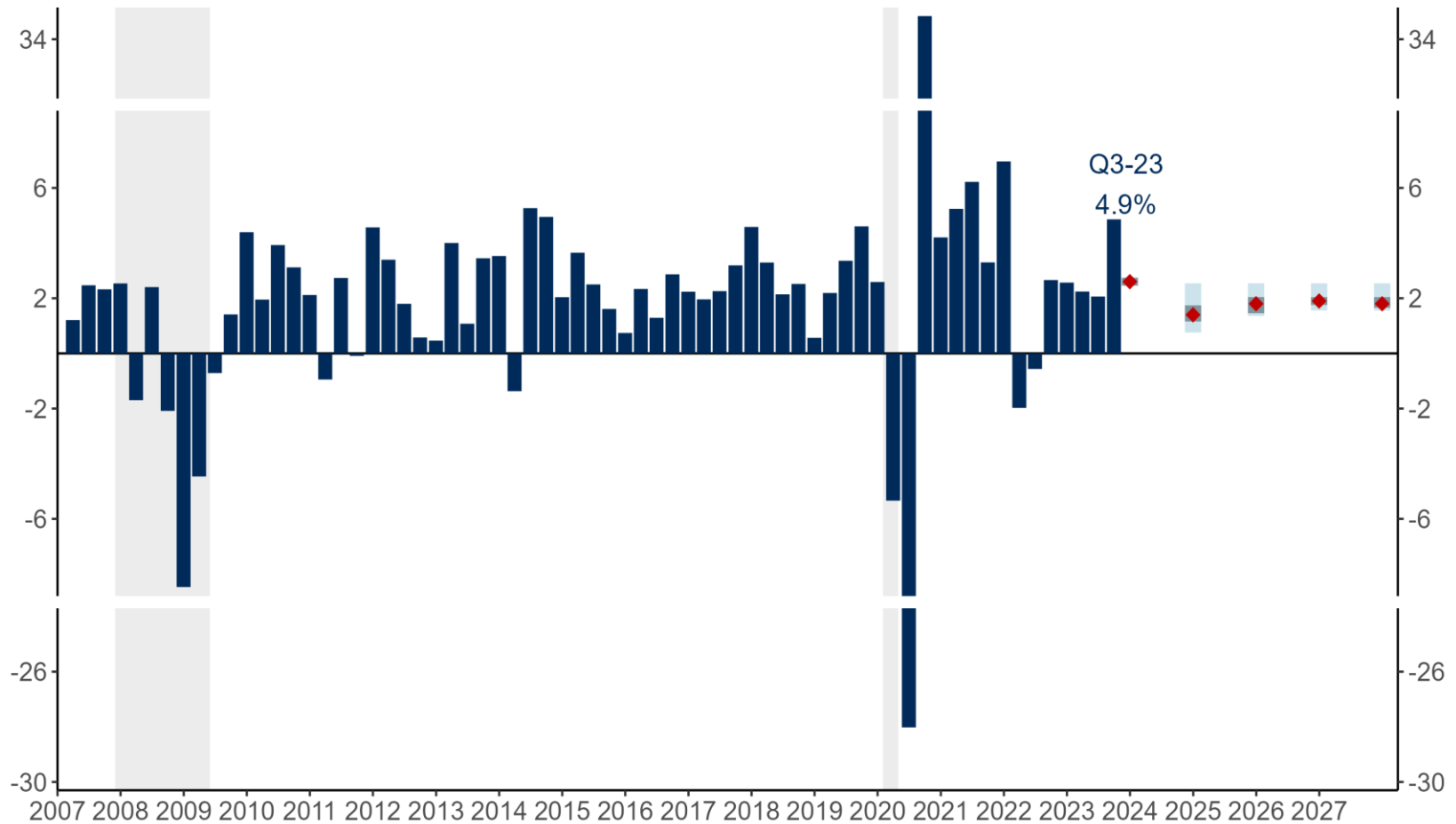
Real Gross Domestic Product

	2022				2023
	Q3	Q4	Q1	Q2	Q3
CHANGE FROM PREVIOUS QUARTER AT COMPOUND ANNUAL RATE [Percent]:					
Gross Domestic Product	2.7	2.6	2.2	2.1	4.9
Personal Consumption Expenditures	1.6	1.2	3.8	0.8	3.1
Nonresidential Fixed Investment	4.7	1.7	5.7	7.4	1.4
Structures	-1.3	6.5	30.3	16.1	11.2
Equipment	5.6	-5.0	-4.1	7.7	-4.4
Intellectual Property	7.1	6.1	3.8	2.7	1.8
Residential Fixed Investment	-26.4	-24.9	-5.3	-2.2	6.7
Exports of Goods & Services	16.2	-3.5	6.8	-9.3	5.4
Imports of Goods & Services	-4.8	-4.3	1.3	-7.6	4.2
Government Consumption Expenditures & Gross Investment	2.9	5.3	4.8	3.3	5.8
Final Sales to Domestic Purchasers	0.7	0.7	3.8	2.0	3.5
LEVEL IN QUARTER AT SEASONALLY ADJUSTED ANNUAL RATE [Billions of Chained (2012) Dollars]:					
Change in Private Inventories	70.7	151.9	27.2	14.9	77.8
Net Exports of Goods & Services	-981.2	-965.6	-935.1	-928.2	-930.7

Real Gross Domestic Product

Real Gross Domestic Product

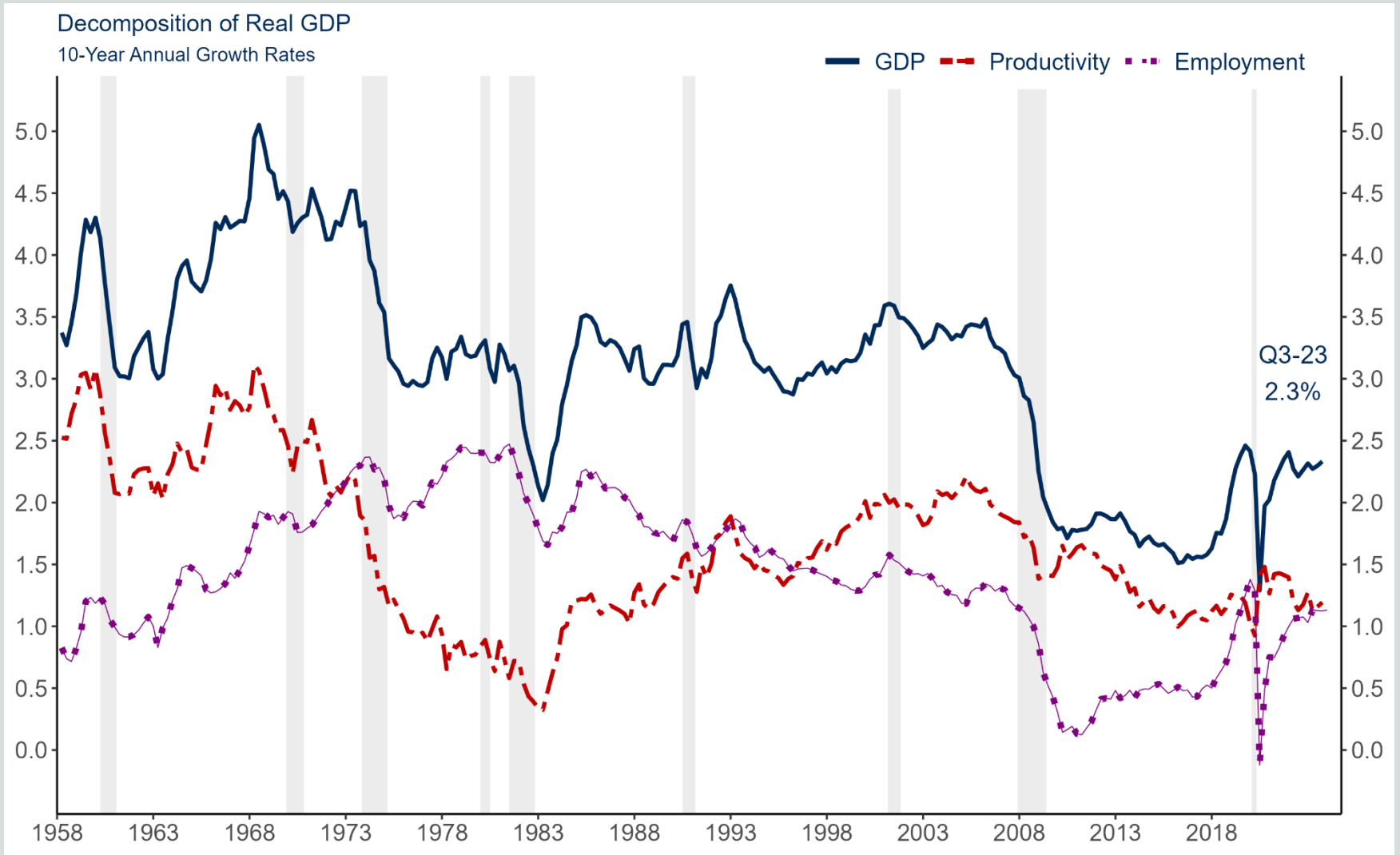
Percent change from previous quarter at annual rate



Note: Projection is the median, central tendency, and range from the March 2023 Summary of Economic Projections. Red dots indicate median projections. Projections of change in real gross domestic product (GDP) are from the fourth quarter of the previous year to the fourth quarter of the year indicated.

Source: Bureau of Economic Analysis via Haver Analytics & Federal Reserve Board

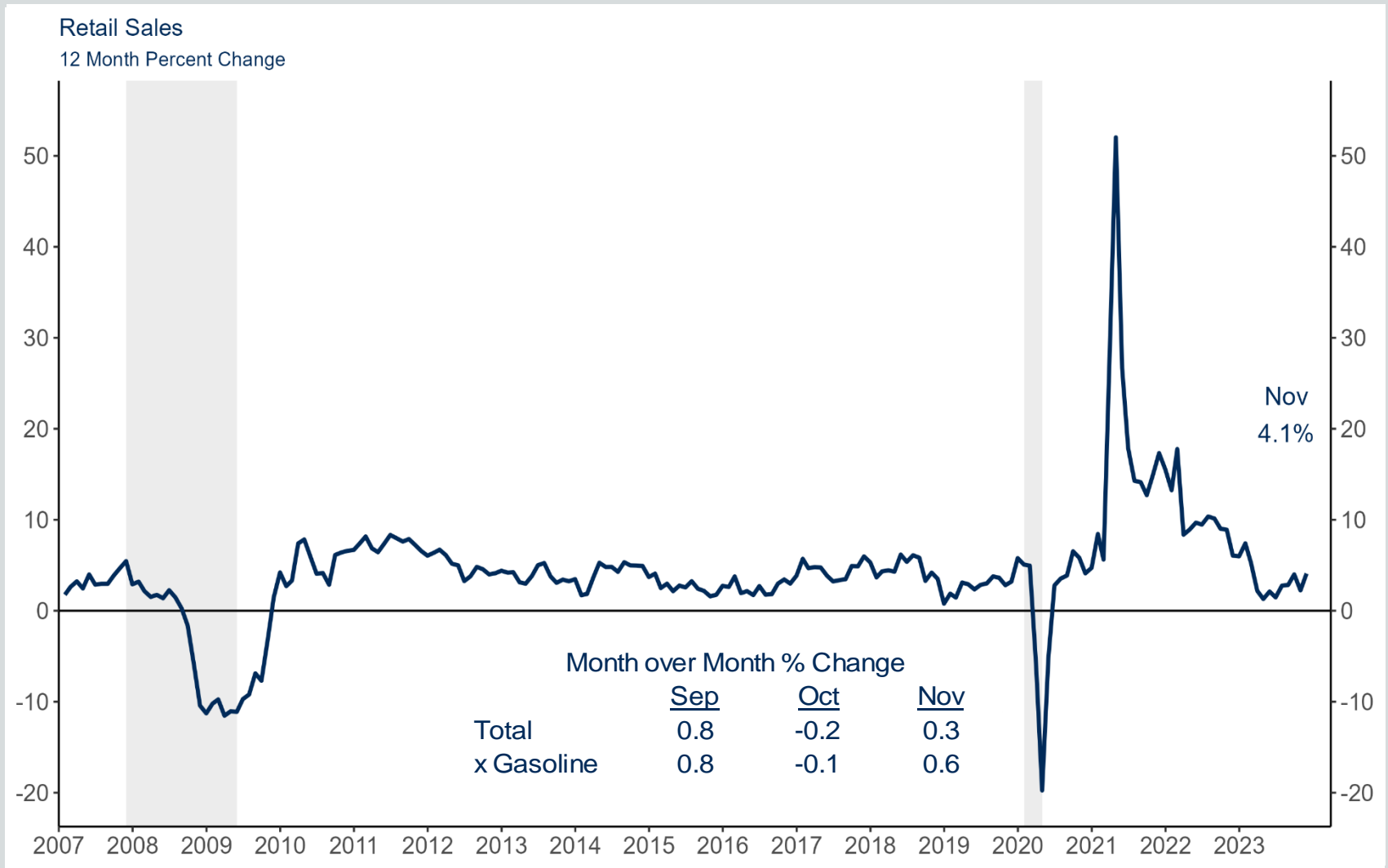
Decomposition of Real GDP



Note: Productivity is calculated as real GDP per employee, from the Household Survey.

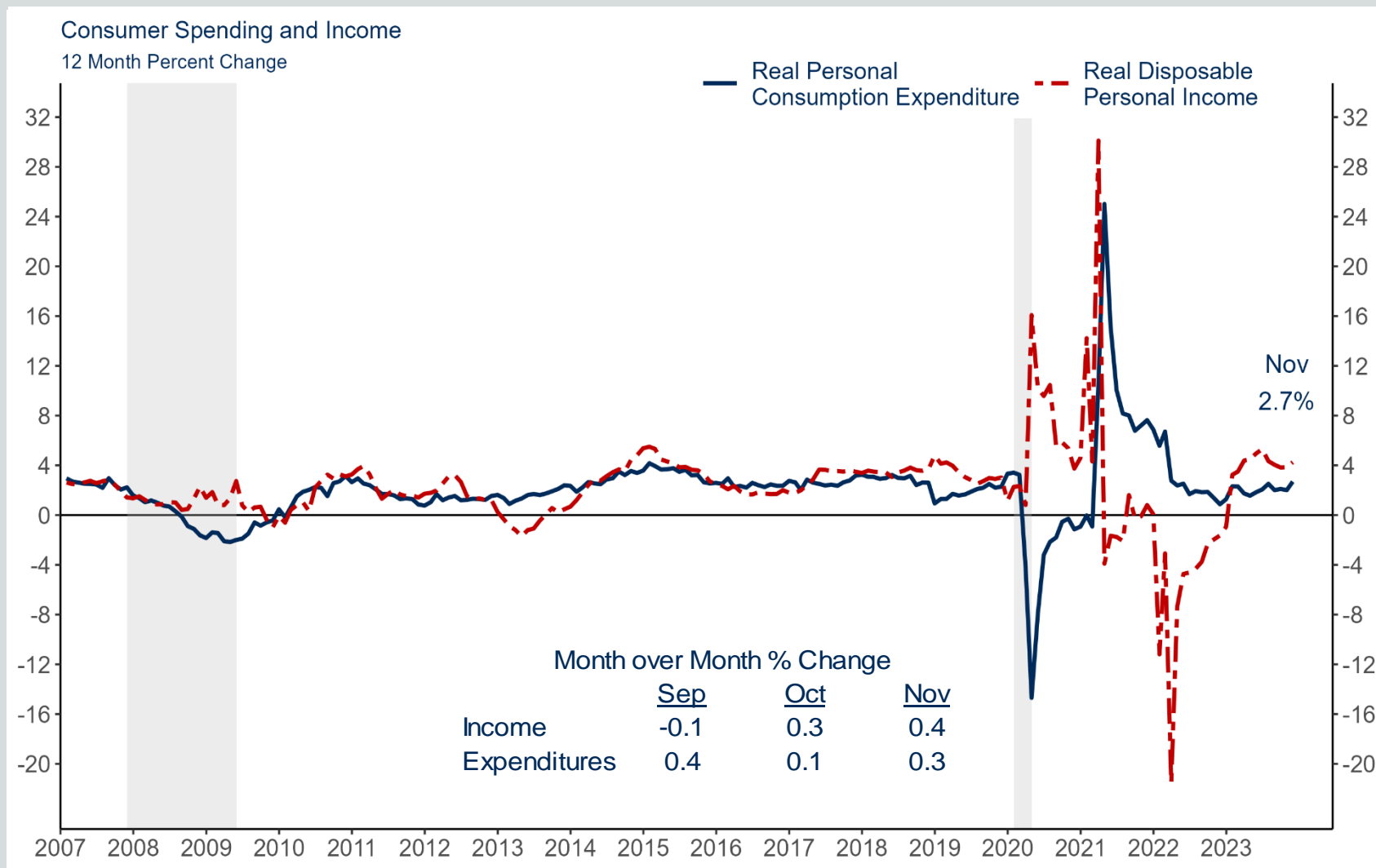
Source: Bureau of Economic Analysis and Bureau of Labor Statistics via Haver Analytics

Retail Sales



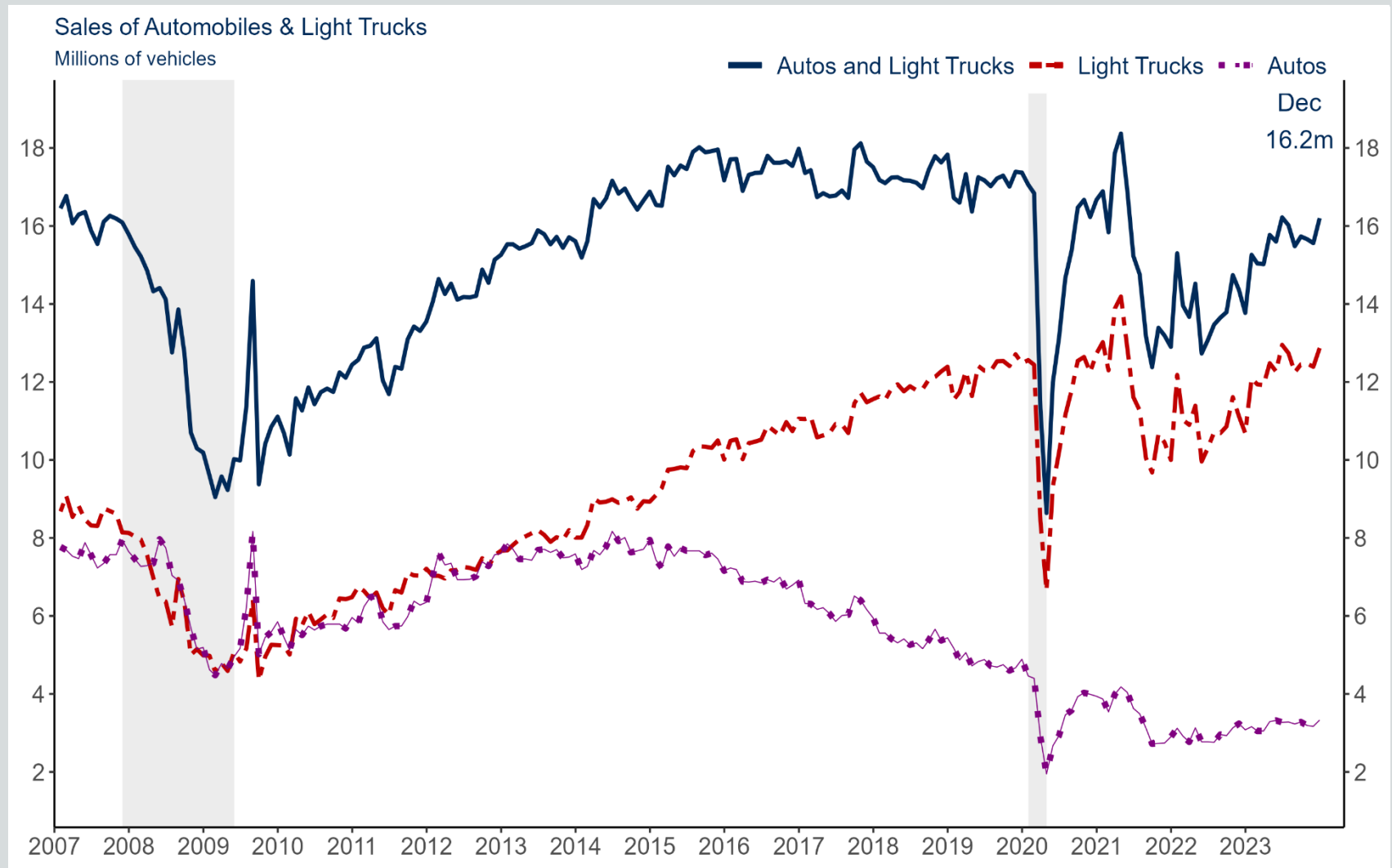
Note: Retail sales includes food services.

Consumer Spending and Income

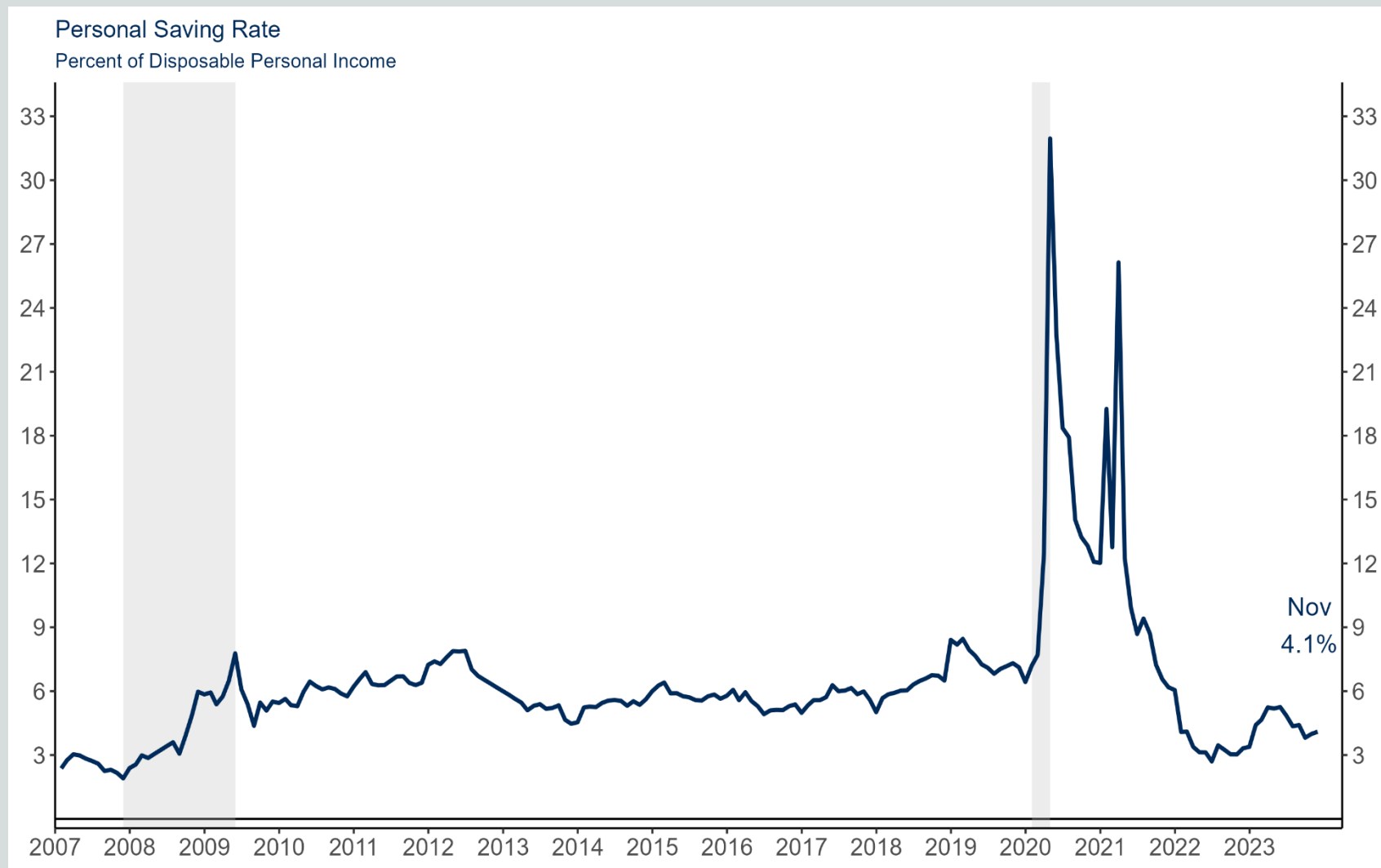


Note: Income has been adjusted to account for temporary fiscal actions in 2008 and 2012-2013.

Sales of Automobiles & Light Trucks



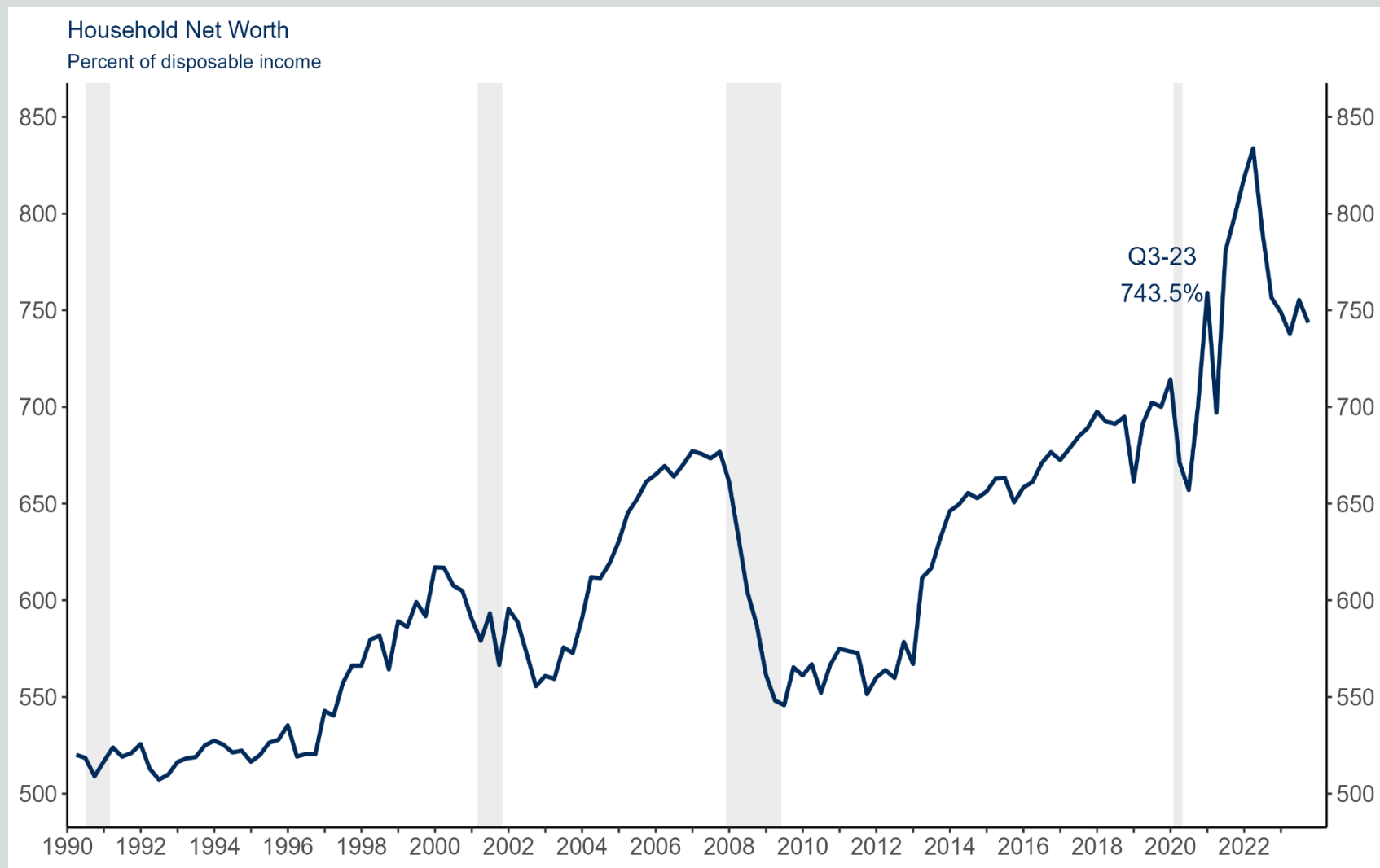
Personal Saving Rate



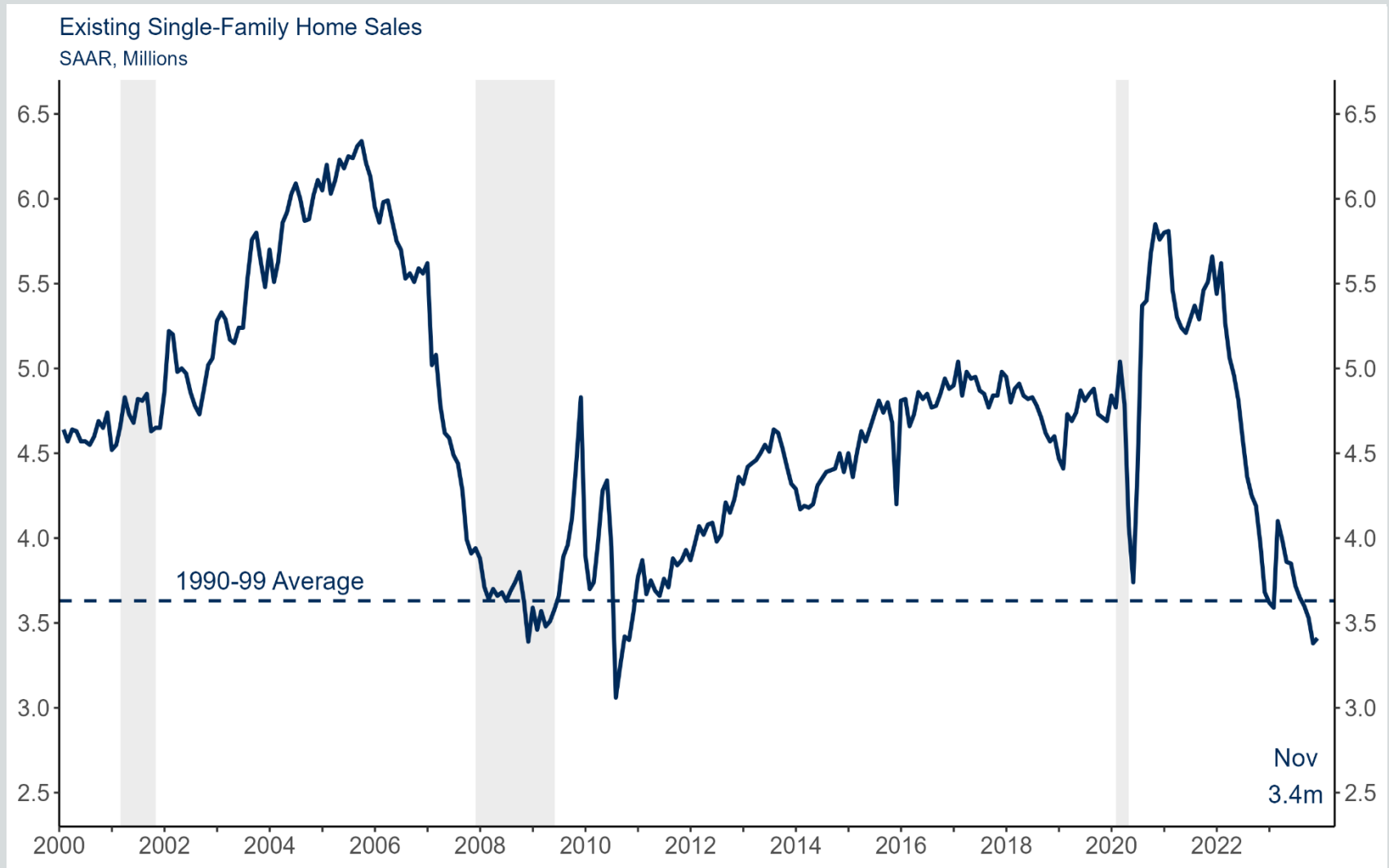
Note: Income has been adjusted to account for temporary fiscal actions in 2008 and 2012-2013.

Source: Bureau of Economic Analysis via Haver Analytics

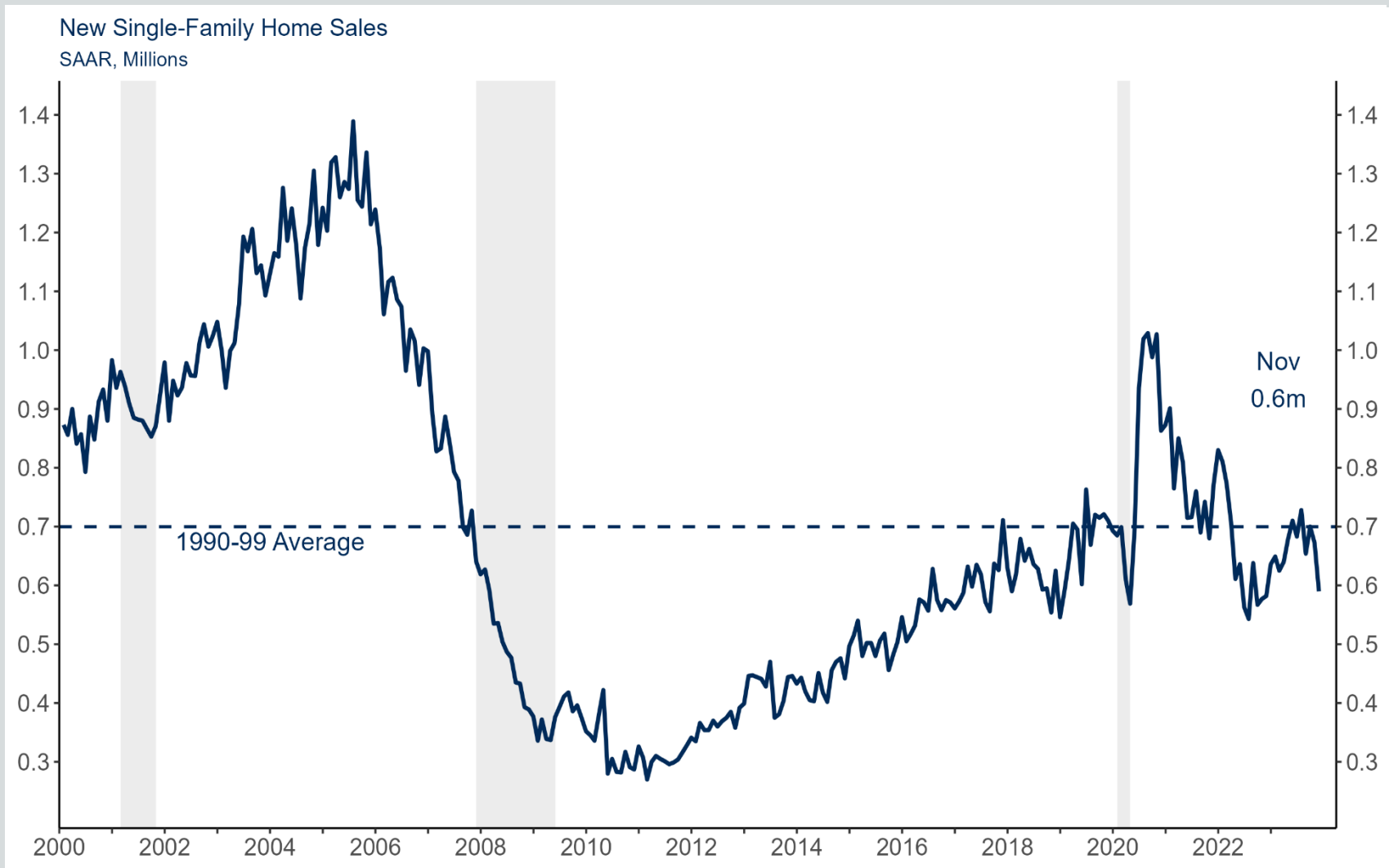
Household Net Worth



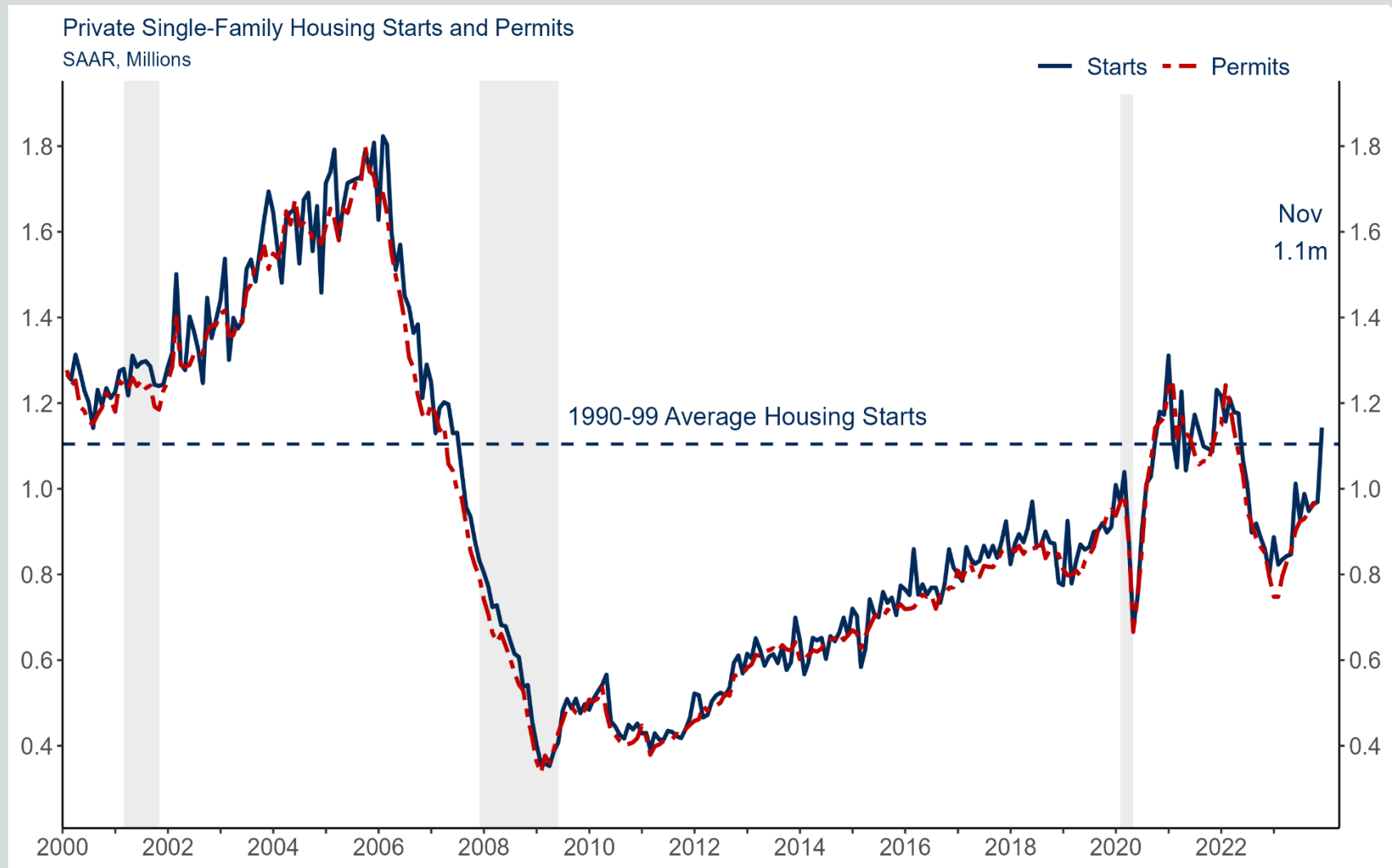
Existing Single-Family Home Sales



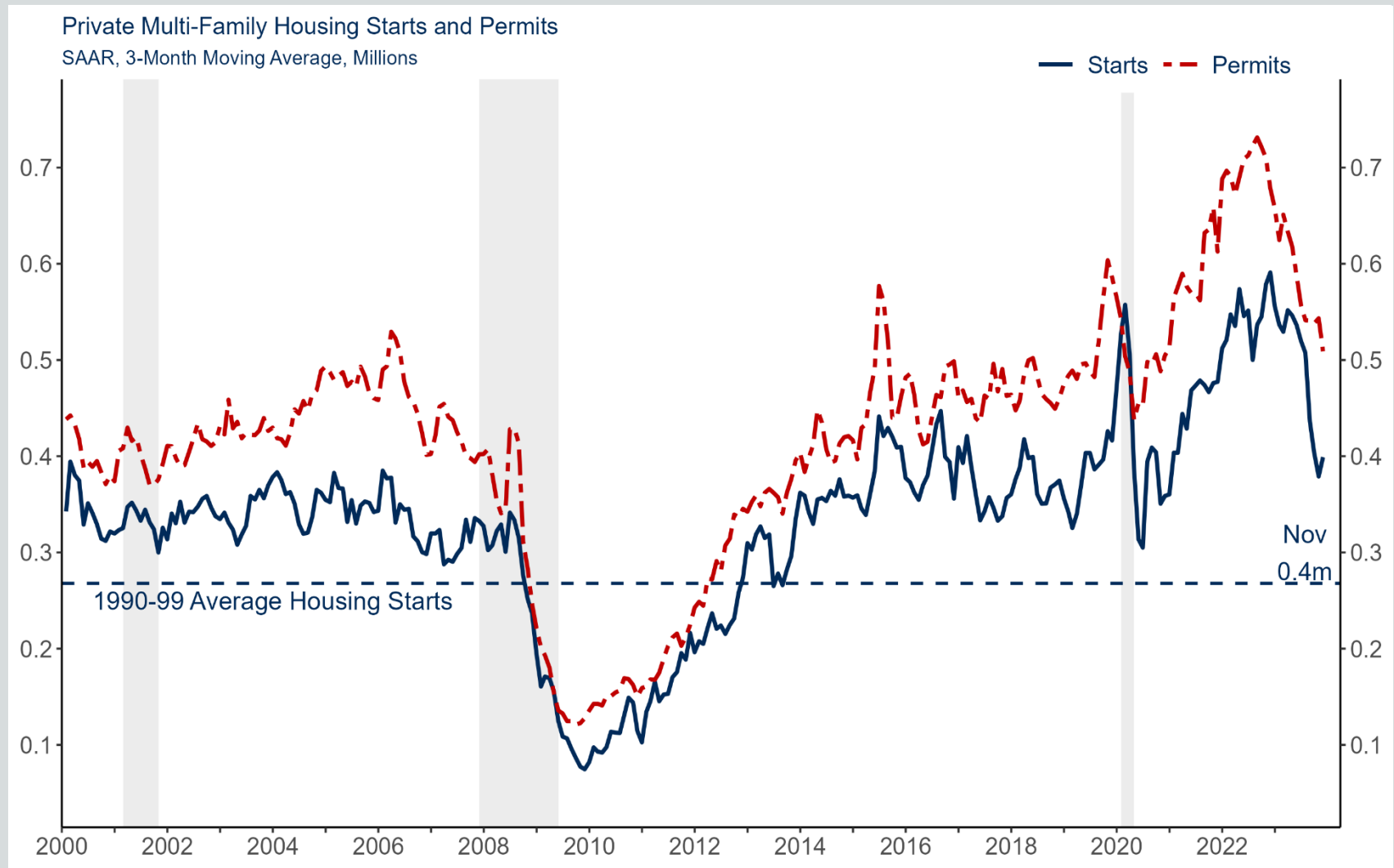
New Single-Family Home Sales



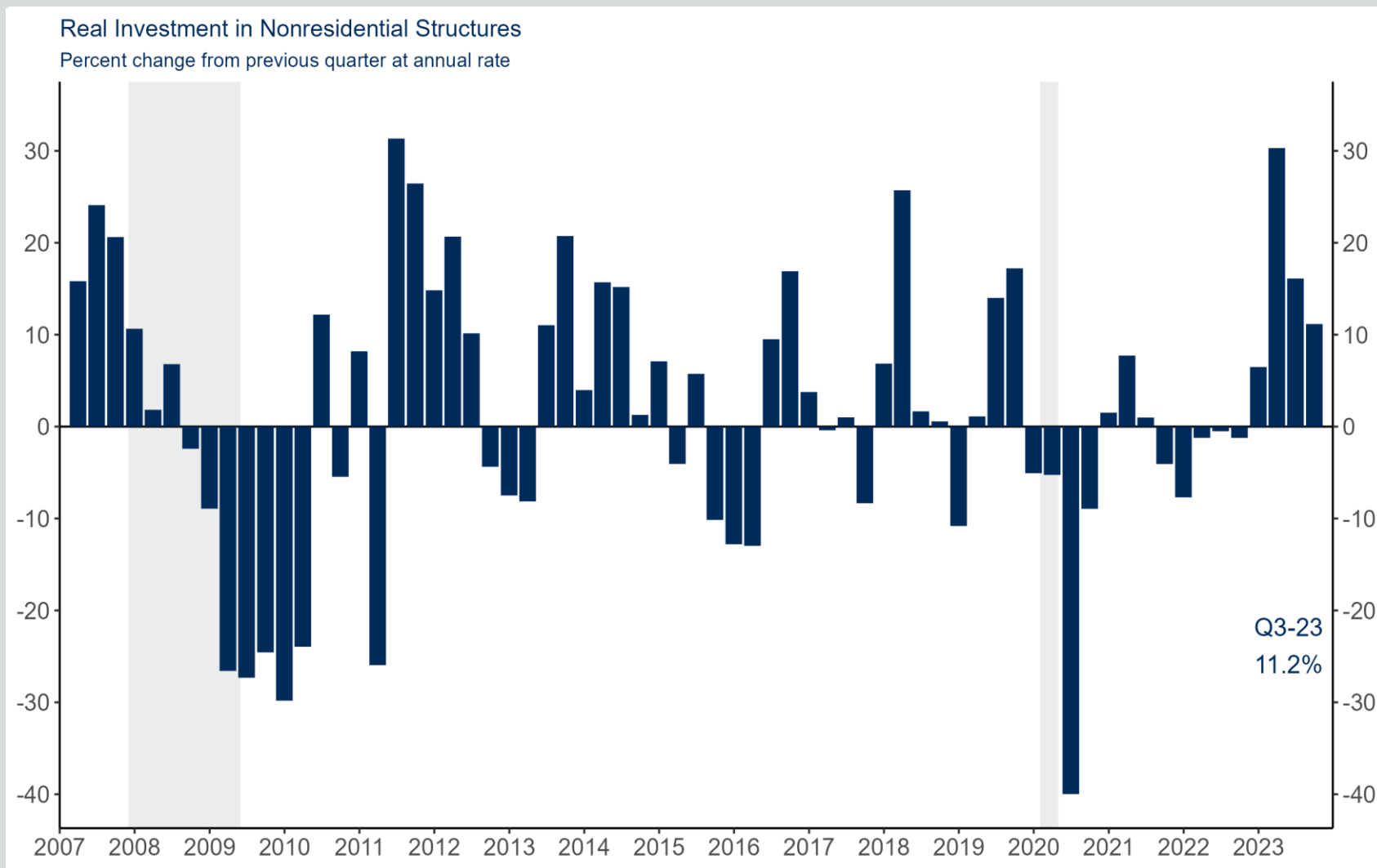
Private Single-Family Housing Starts & Permits



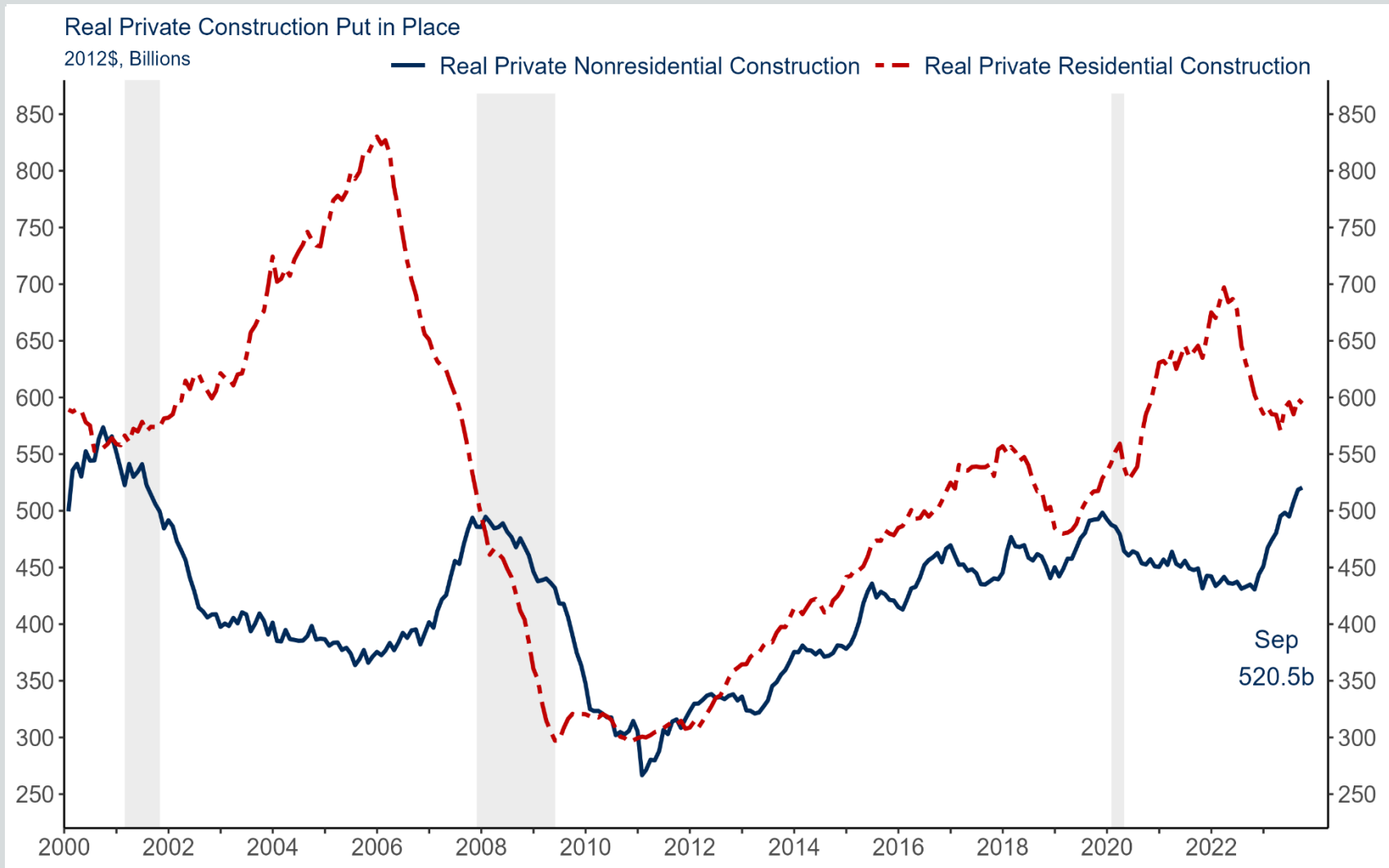
Private Multi-Family Housing Starts & Permits



Real Investment in Nonresidential Structures



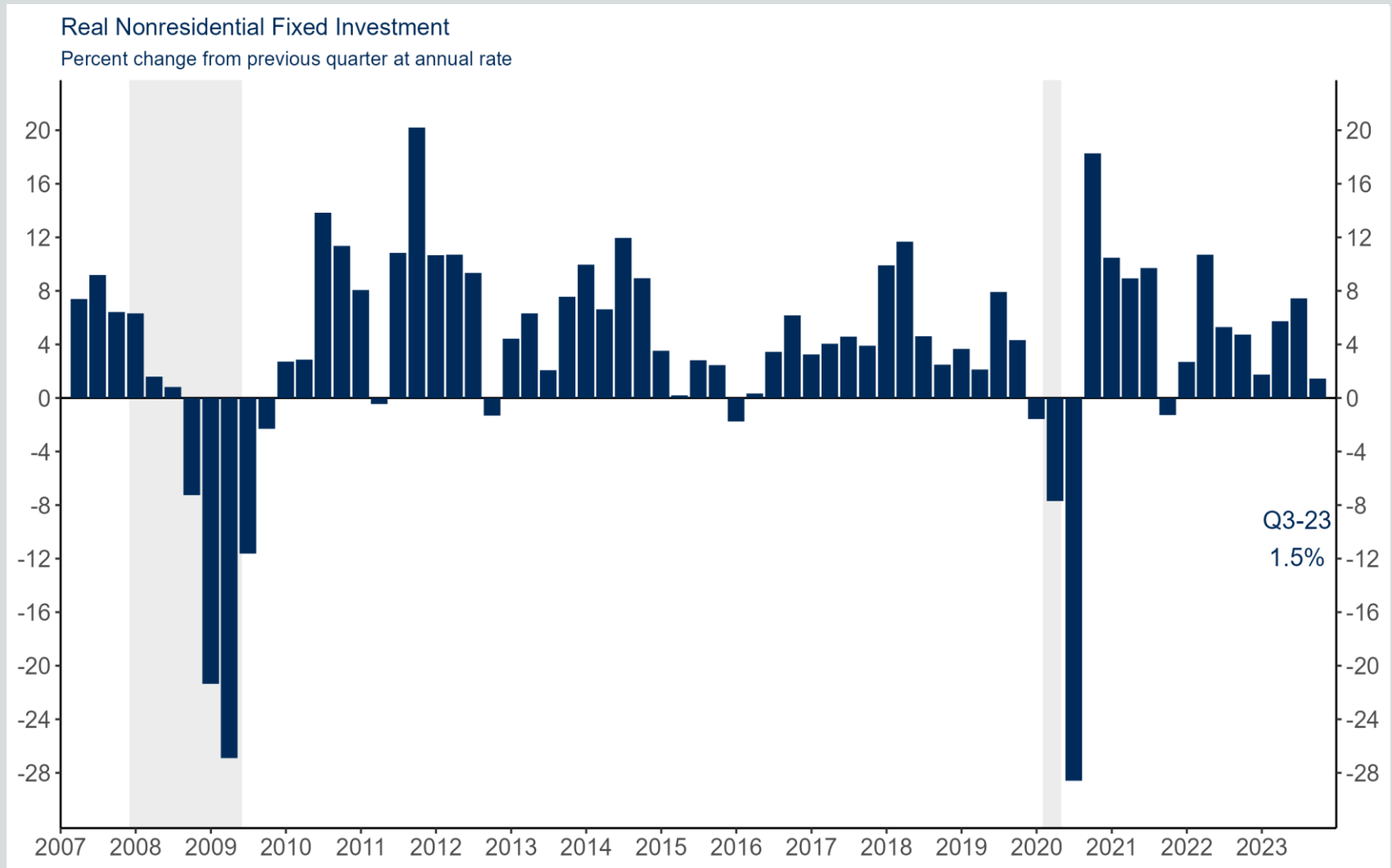
Real Private Construction Put In Place



Notes: Private nonresidential construction deflated using the price index for private fixed investment in nonresidential structures and private residential construction deflated using the private residential investment chain price index.

Source: Census Bureau via Haver Analytics 17

Real Nonresidential Fixed Investment

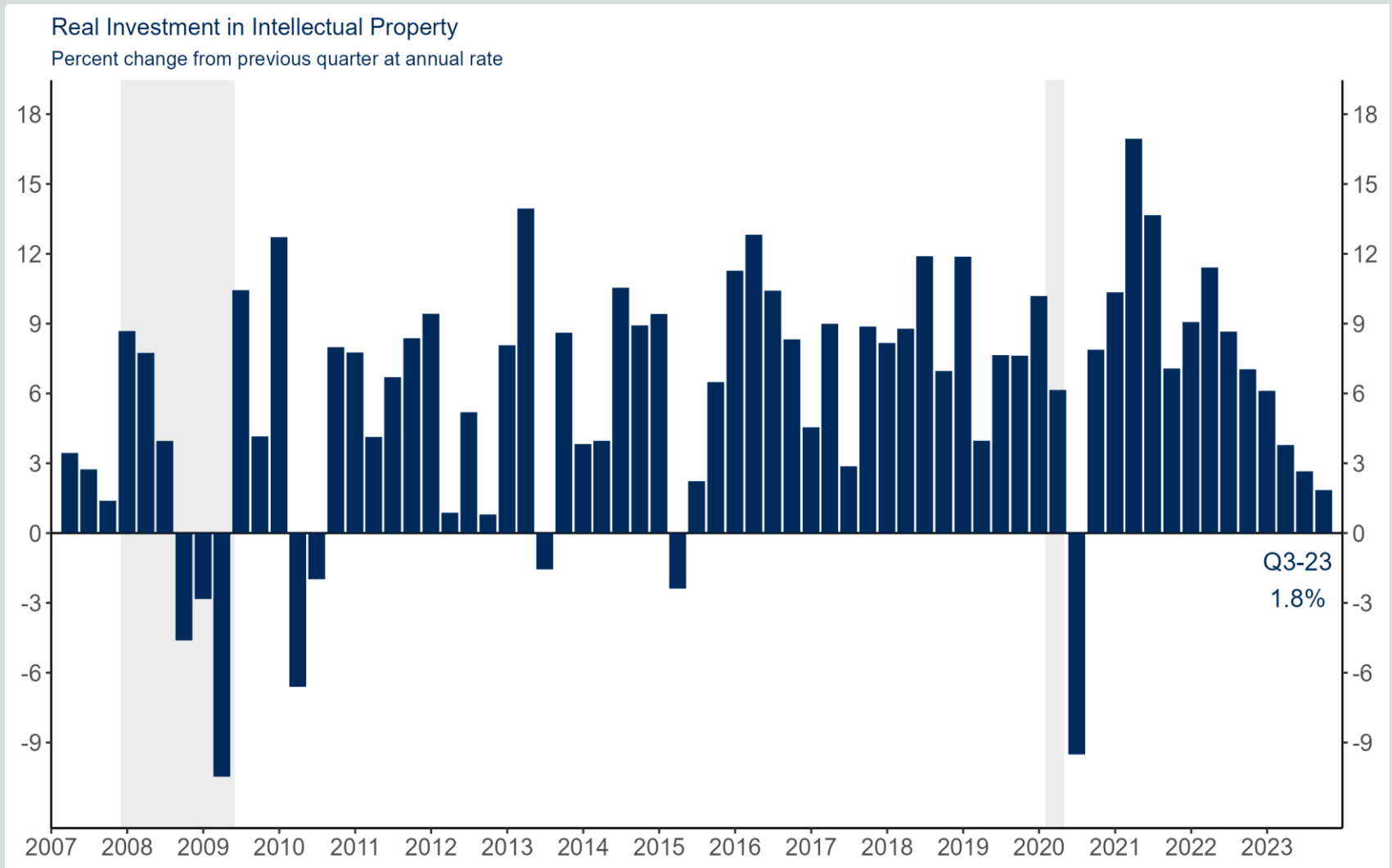


Q3-23
1.5%

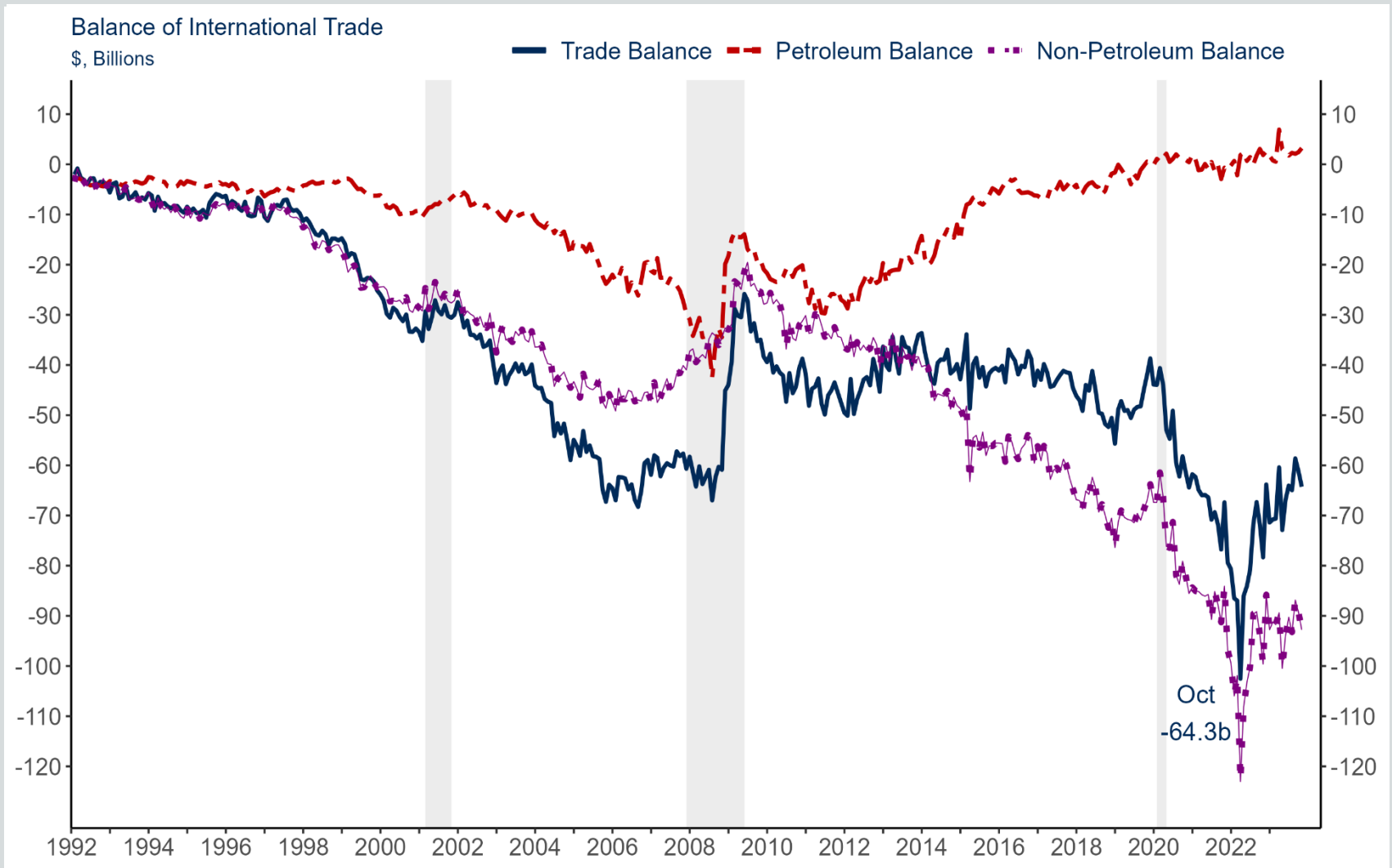
Real Investment in Equipment



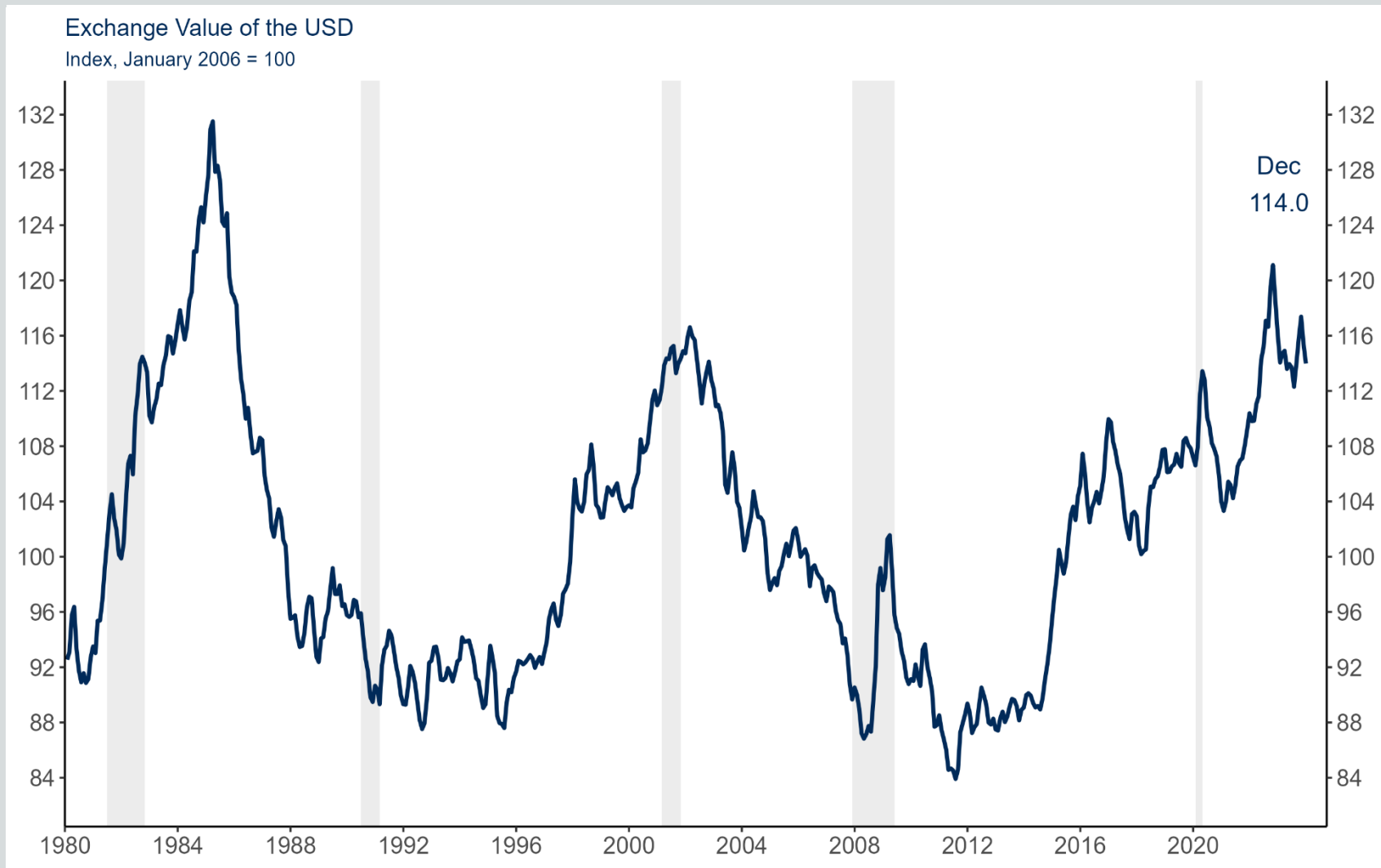
Real Investment in Intellectual Property



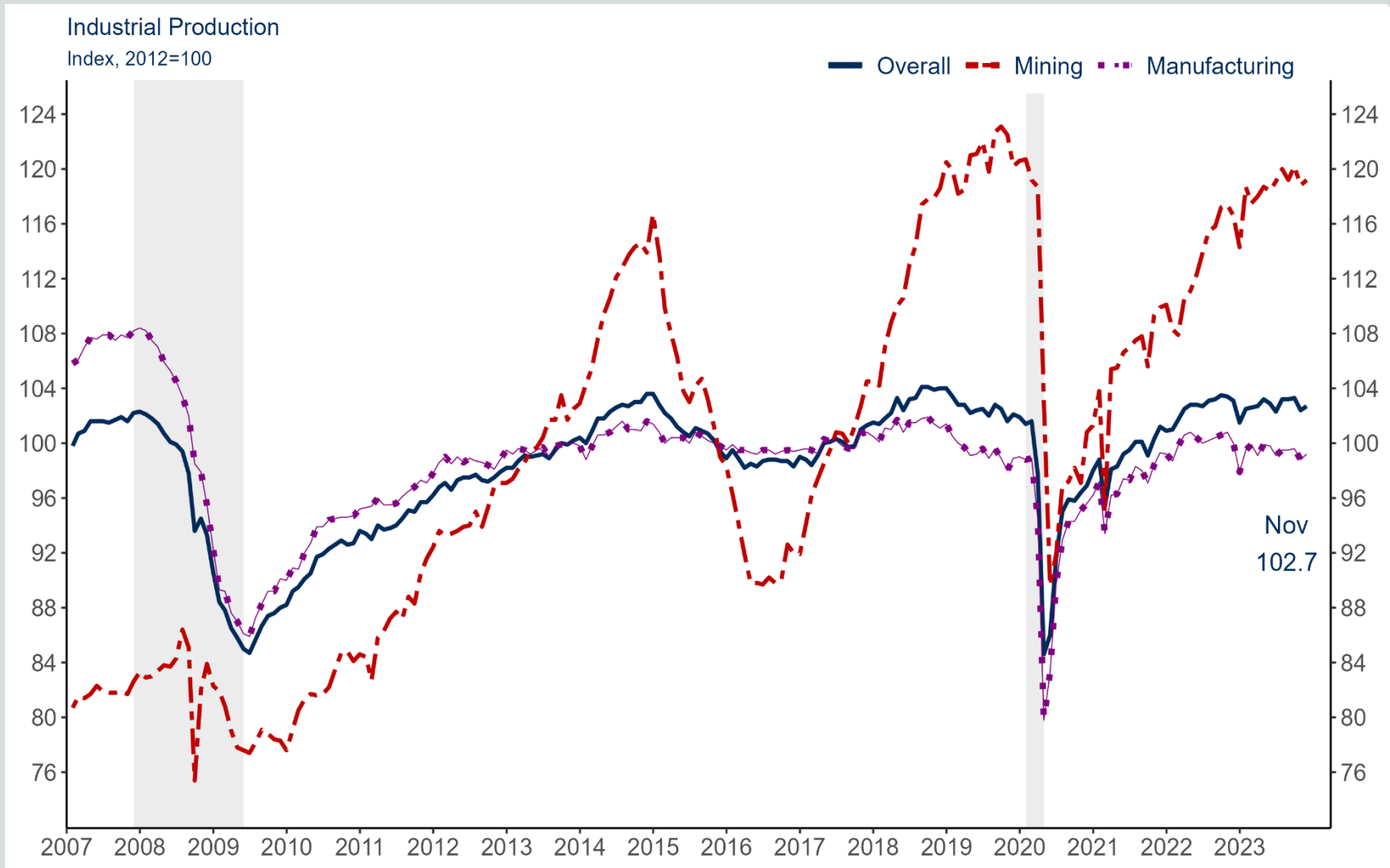
Balance of International Trade



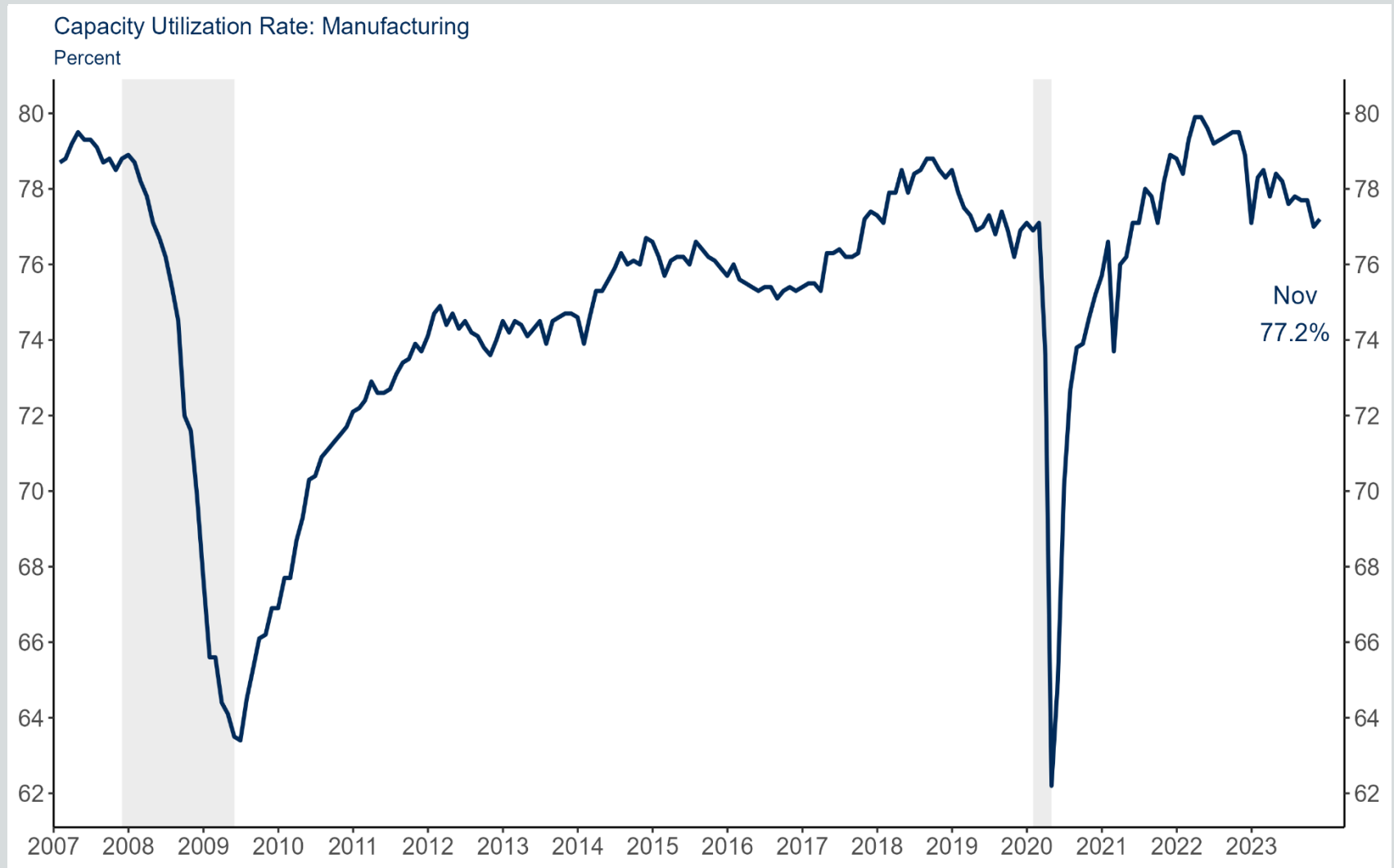
Exchange Value of the USD



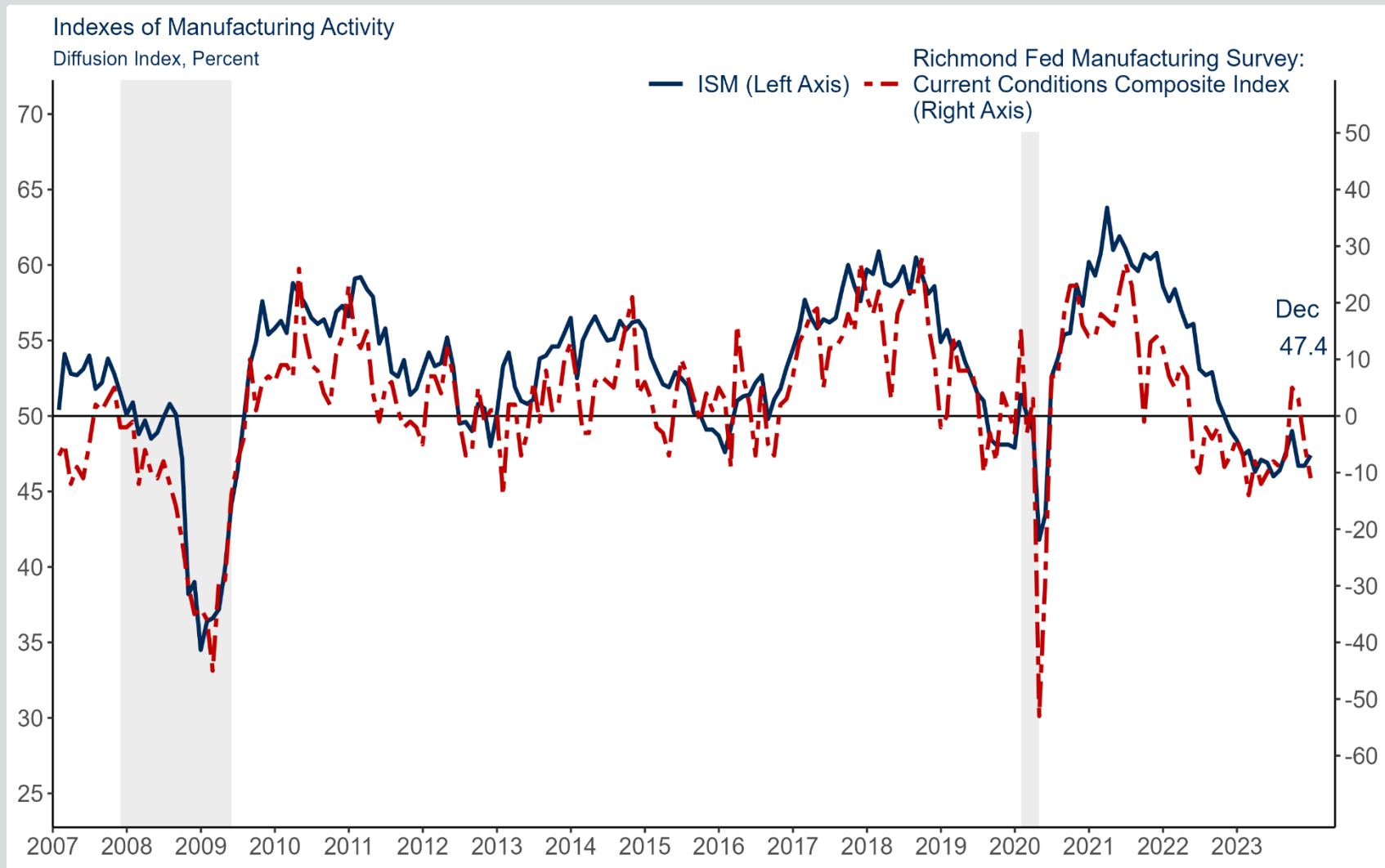
Industrial Production



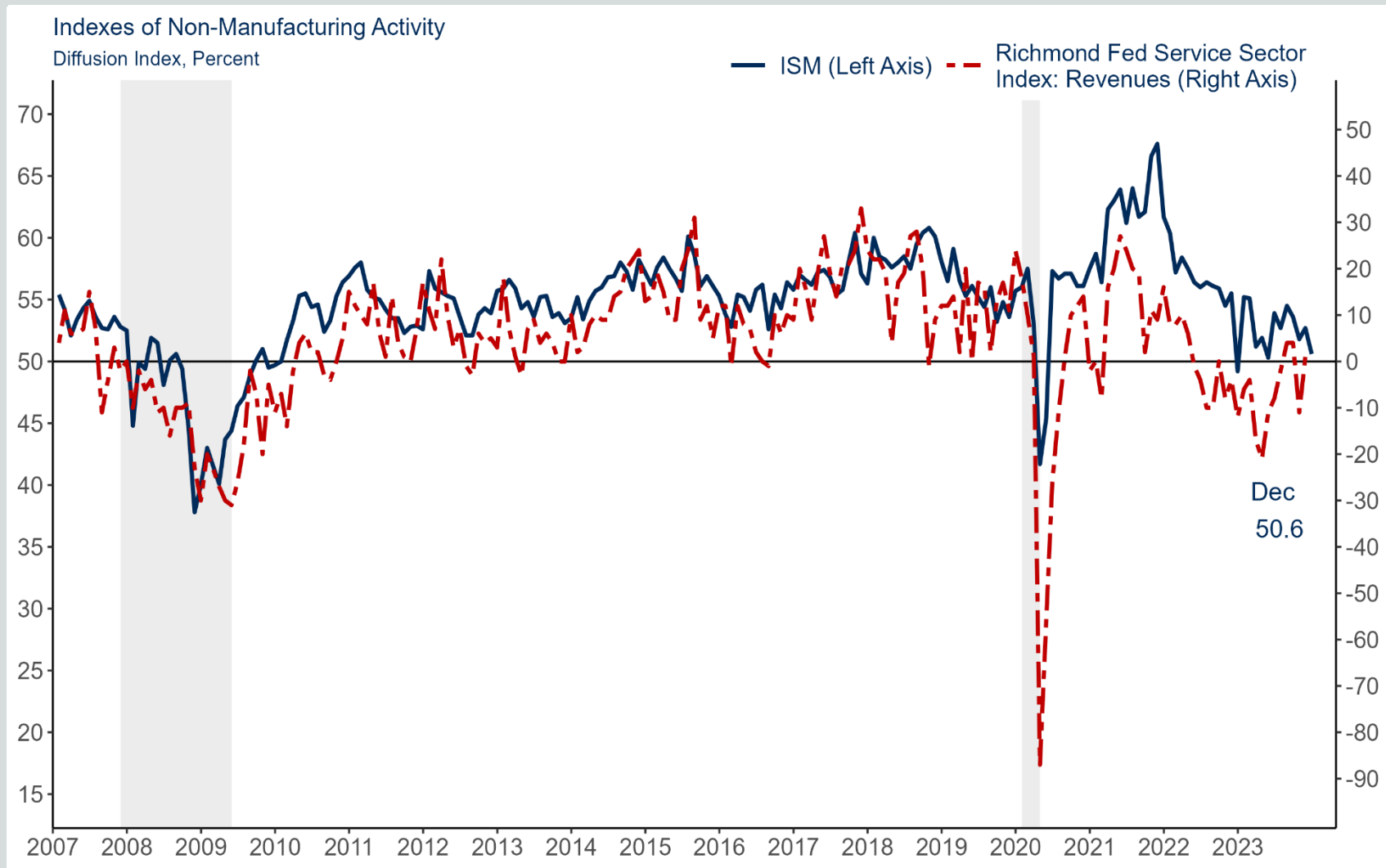
Capacity Utilization Rate: Manufacturing



Indexes of Manufacturing Activity



Indexes of Non-Manufacturing Activity



ISM: Business Survey Indexes

MANUFACTURING BUSINESS:

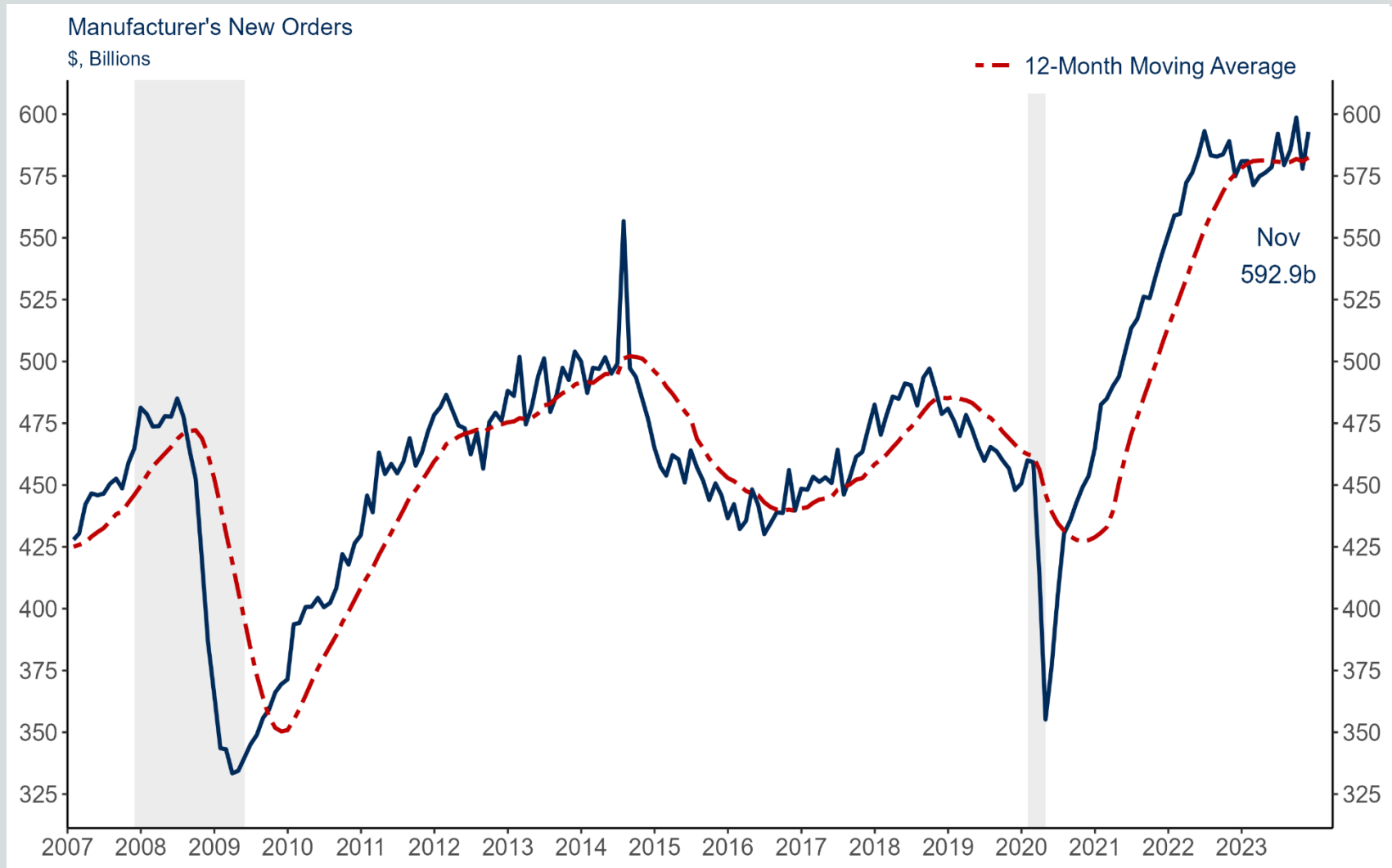
NON-MANUFACTURING BUSINESS:

	<u>Nov.</u>	<u>Dec.</u>		<u>Nov.</u>	<u>Dec.</u>
Purchasing Managers Index	46.7	47.4	Non-Manufacturing Index	52.7	50.6
Production	48.5	50.3	Business Activity	55.1	56.6
New Orders	48.3	47.1	New Orders	55.5	52.8
Employment	45.8	48.1	Employment	50.7	43.3
Supplier Deliveries	46.2	47.0	Supplier Deliveries	49.6	49.5
Inventories	44.8	44.3	Inventories	55.4	49.6
Prices	49.9	45.2	Prices	58.3	57.4
Backlog of Orders	39.3	45.3	Backlog of Orders	49.1	49.4
New Export Orders	46.0	49.9	New Export Orders	53.6	50.4
Imports	46.2	46.4	Imports	53.7	49.3

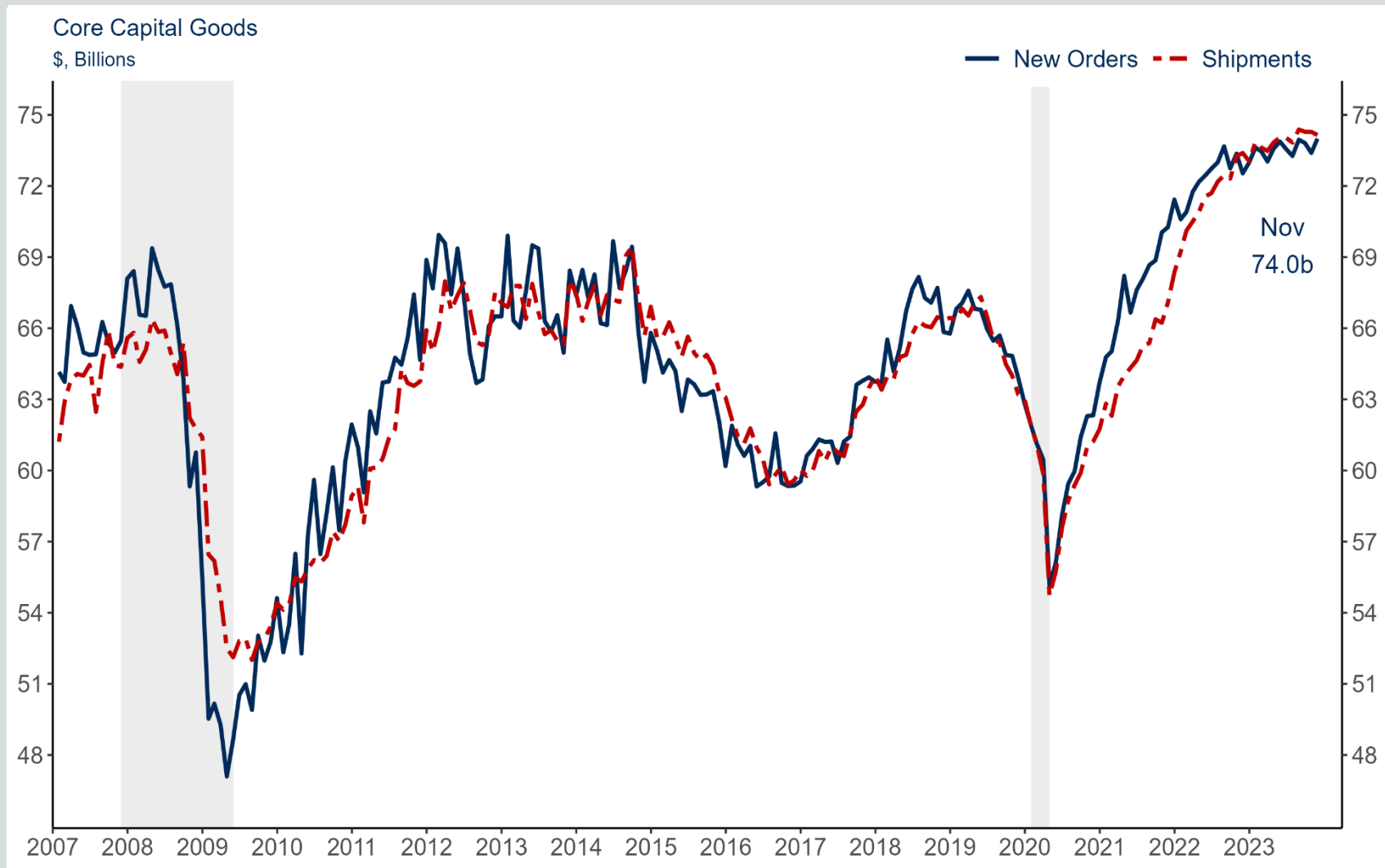
DIFFUSION INDEXES: Numbers above 50 percent indicate more favorable responses towards economic activity.

Source: Institute for Supply Management via Haver Analytics **27**

Manufacturers' New Orders

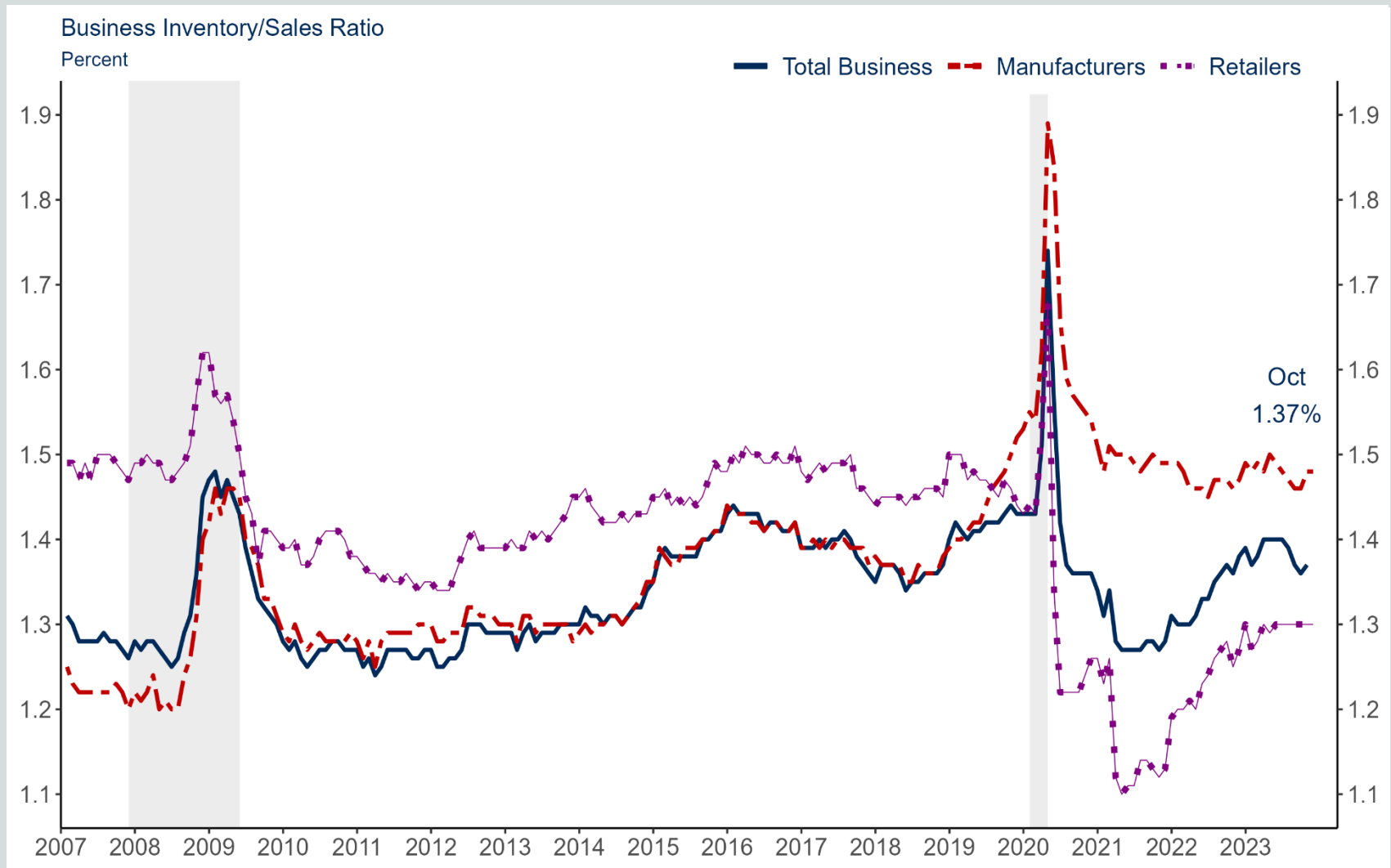


Core Capital Goods

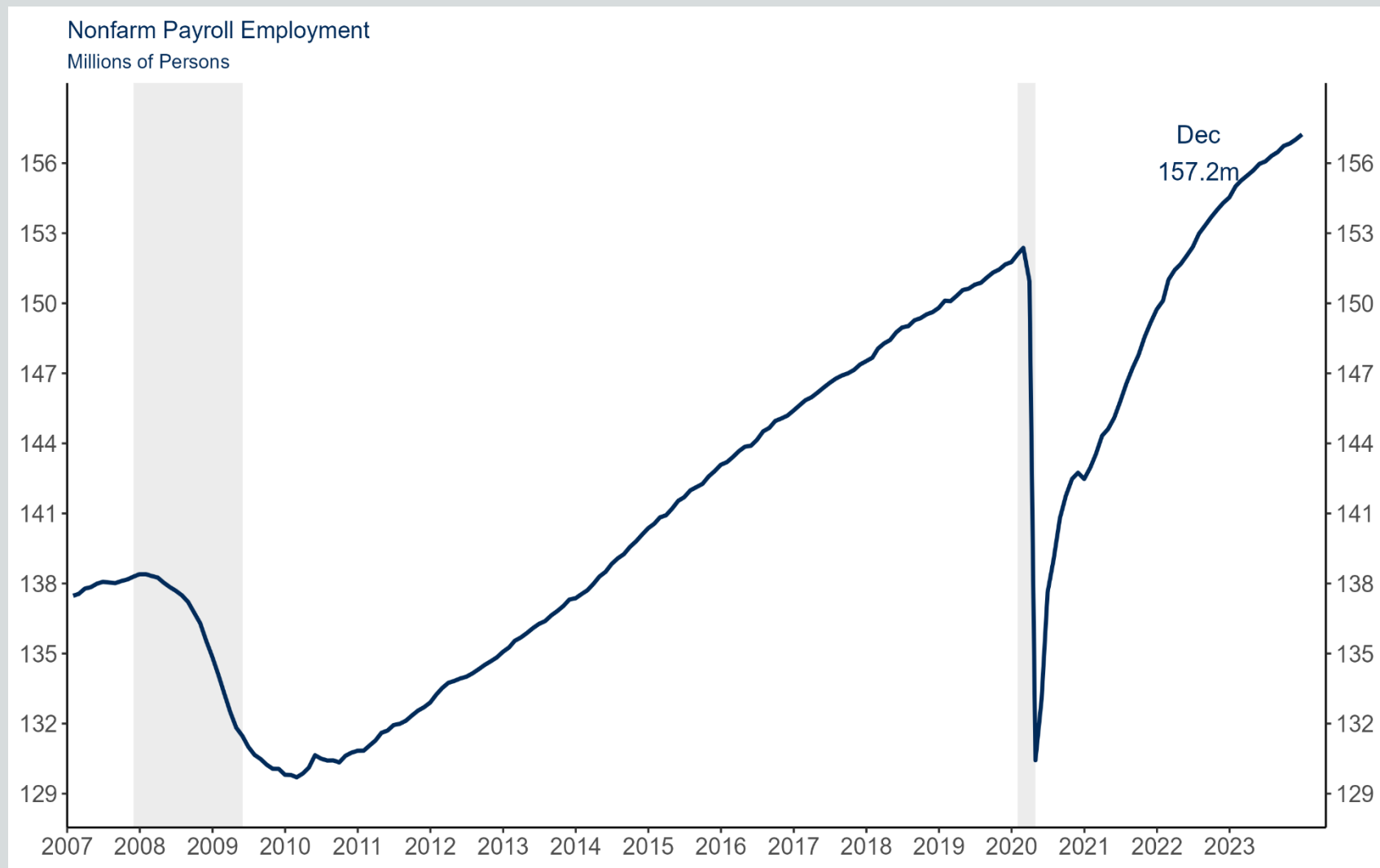


Notes: Core capital goods are nondefense capital goods excluding aircraft.

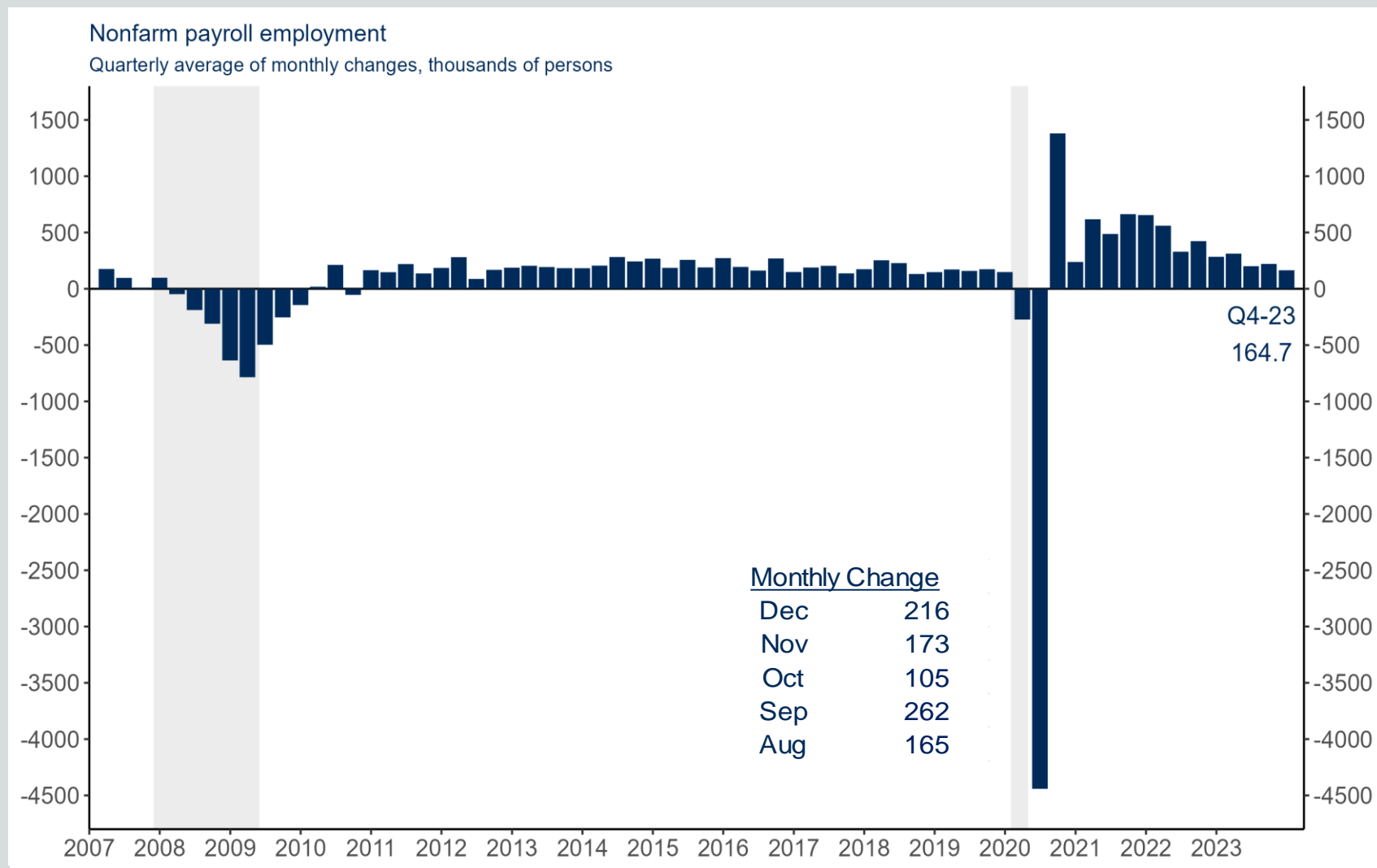
Business Inventory/Sales Ratio



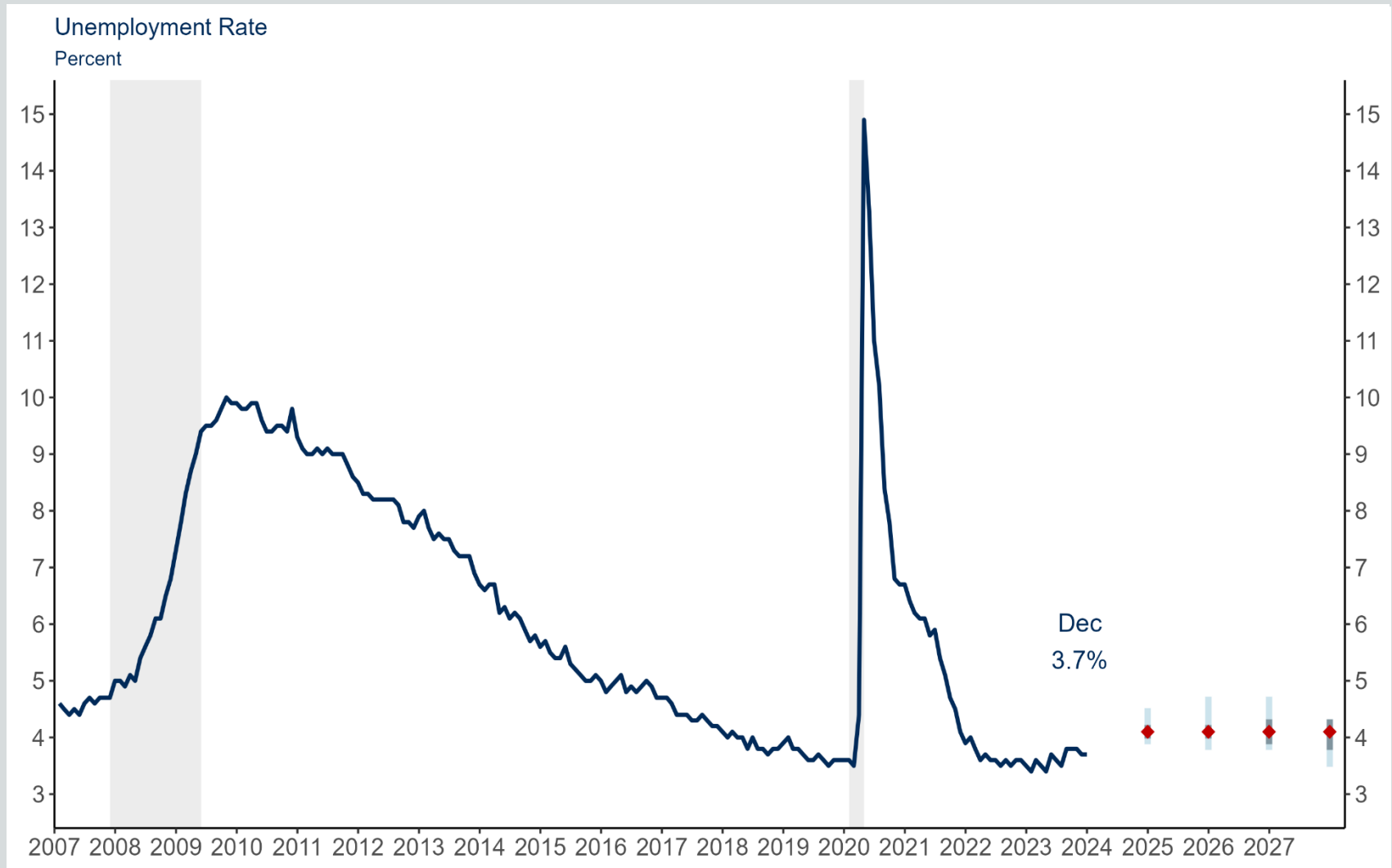
Nonfarm Payroll Employment



Nonfarm Payroll Employment



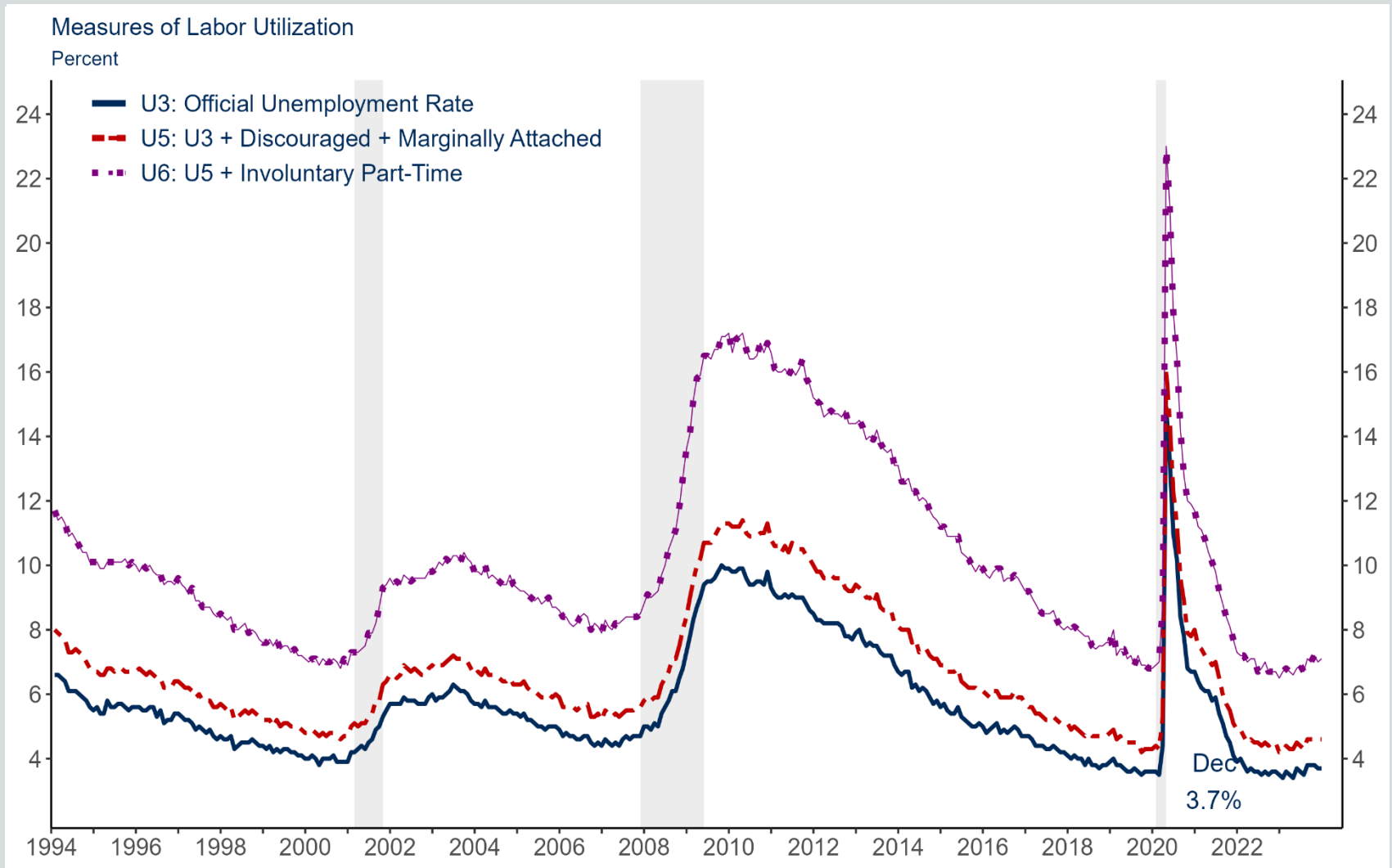
Unemployment Rate



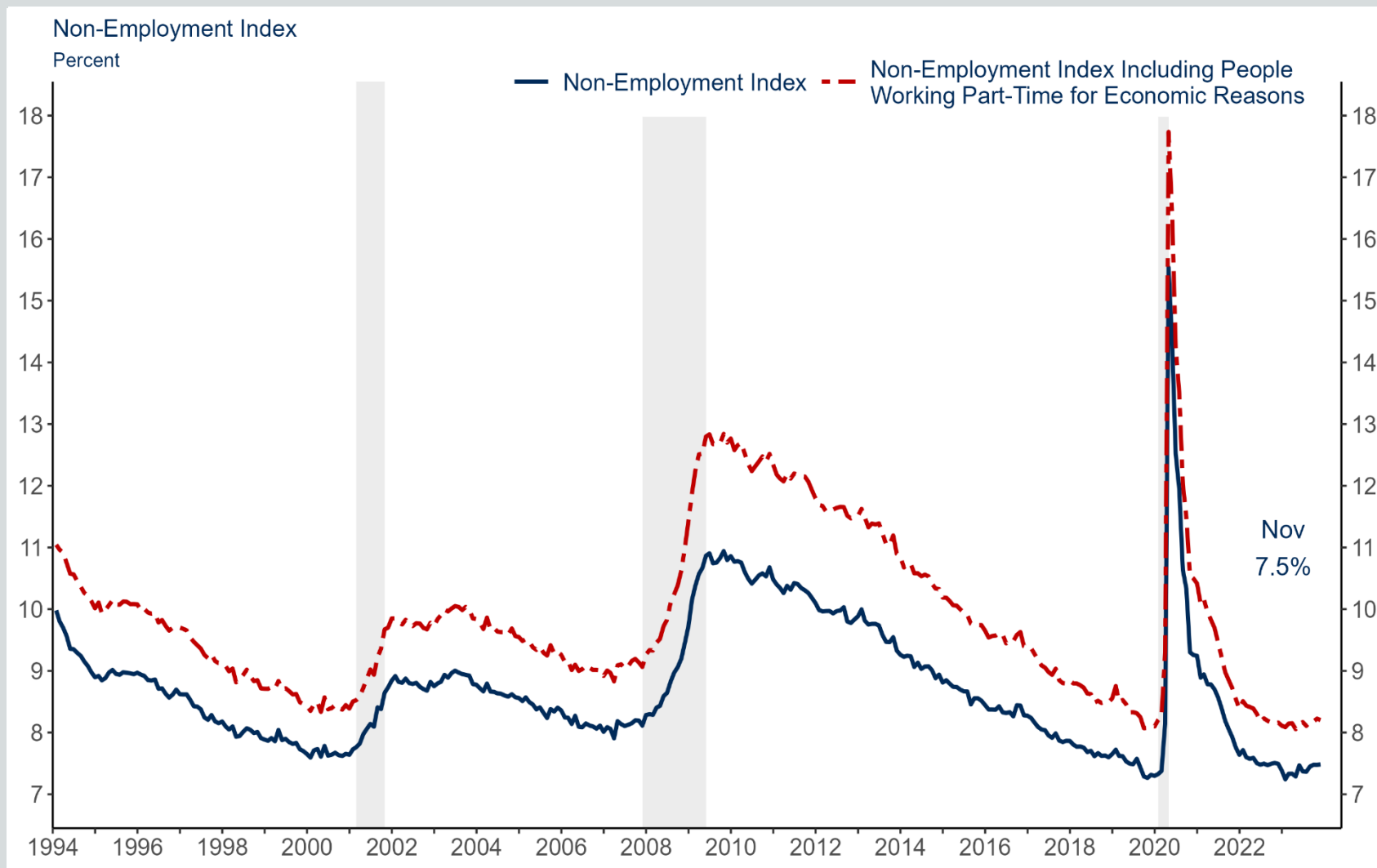
Notes: FOMC projection is the median, range, and central tendency for the Q4 levels, from the March 2023 meeting. Red dots indicate median projections.

Source: Bureau of Labor Statistics & Board of Governors via Haver Analytics

Measures of Labor Utilization

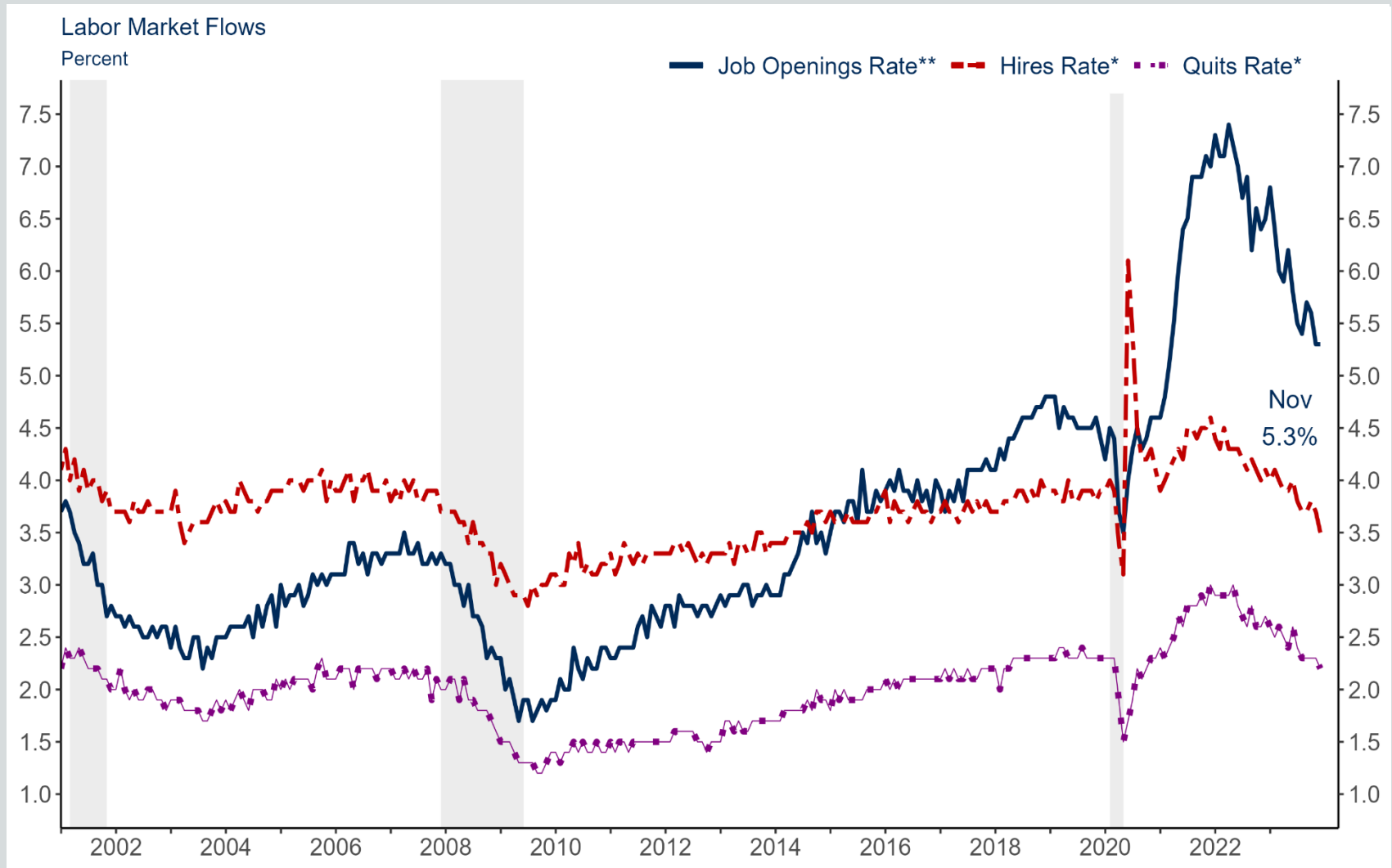


Non-Employment Index



Based on "Measuring Resource Utilization in the Labor Market," Andreas Hornstein, Marianna Kudlyak, and Fabian Lange, Federal Reserve Bank of Richmond Economic Quarterly, First Quarter 2014.

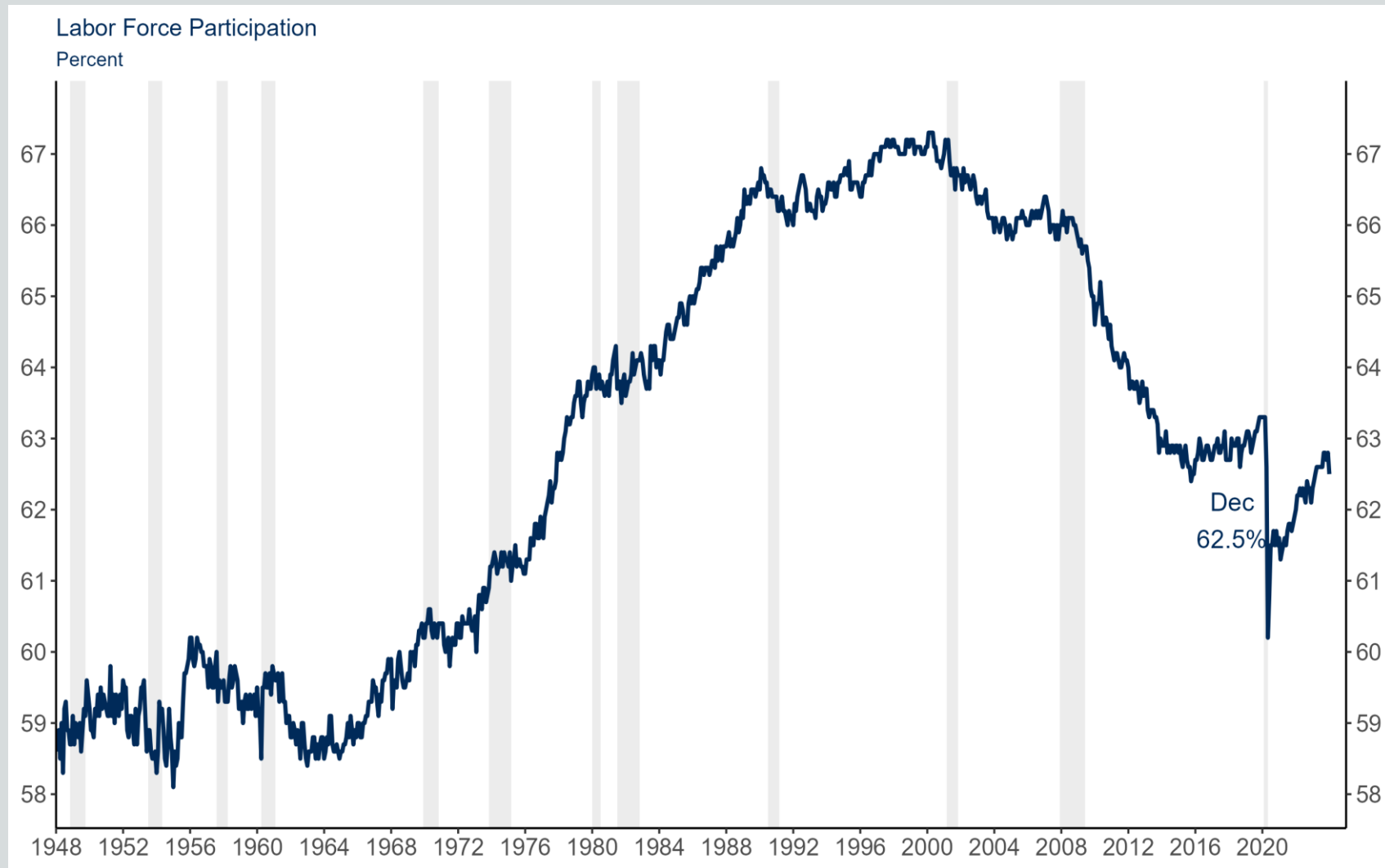
Labor Market Flows



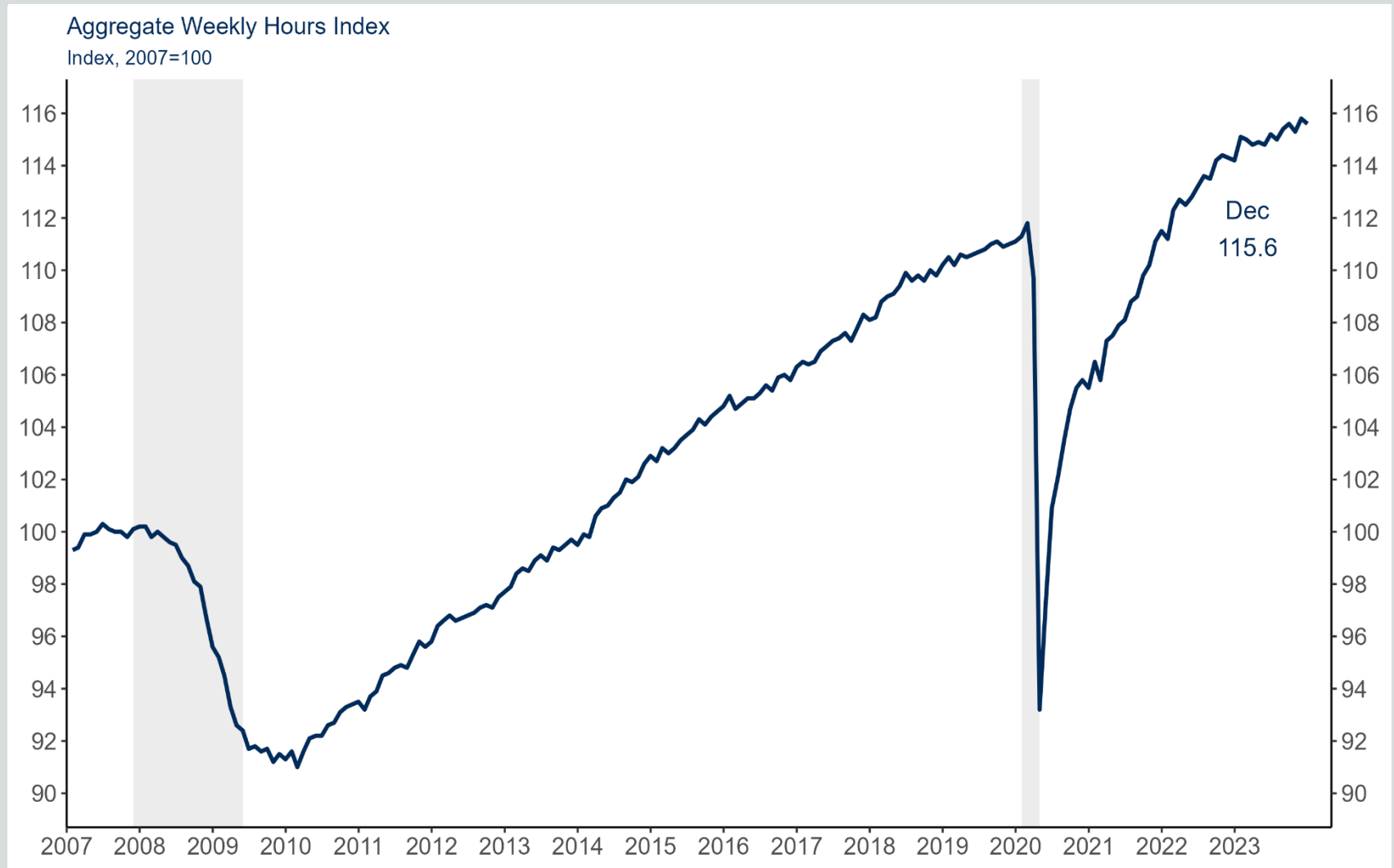
Note: *Percent of total employment. **Percent of total employment plus job openings.

Source: JOLTS via Haver Analytics

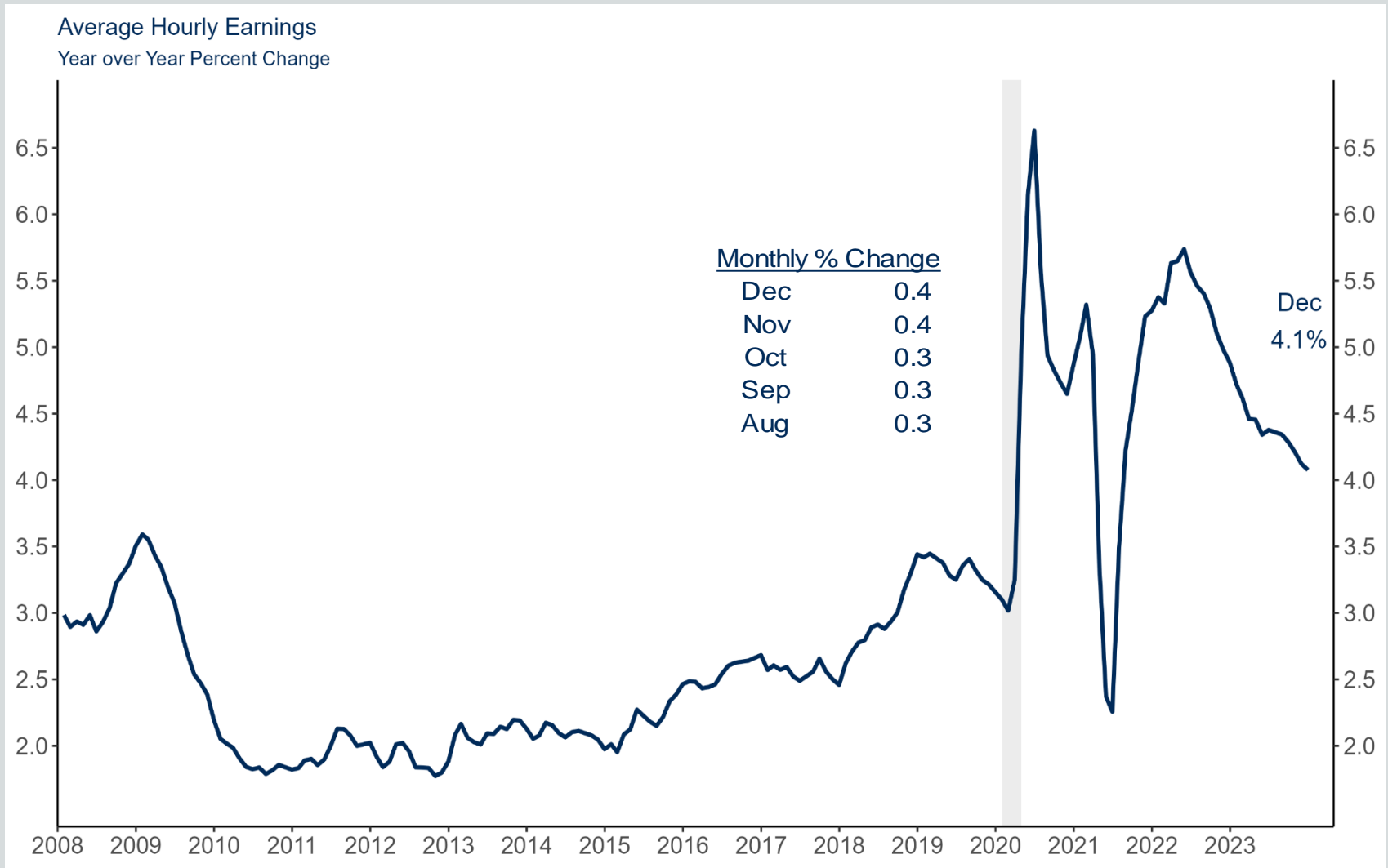
Labor Force Participation



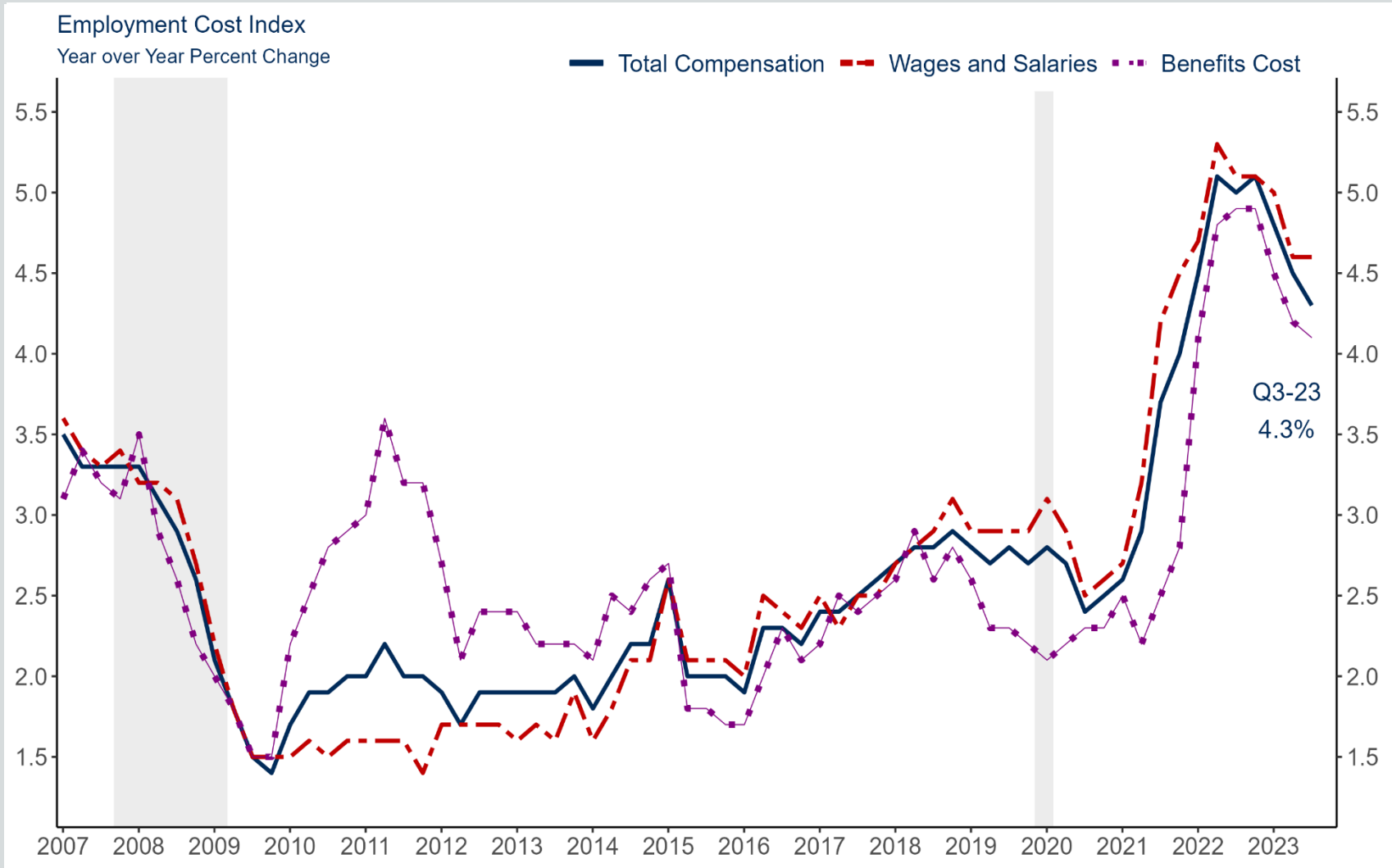
Aggregate Weekly Hours Index



Average Hourly Earnings



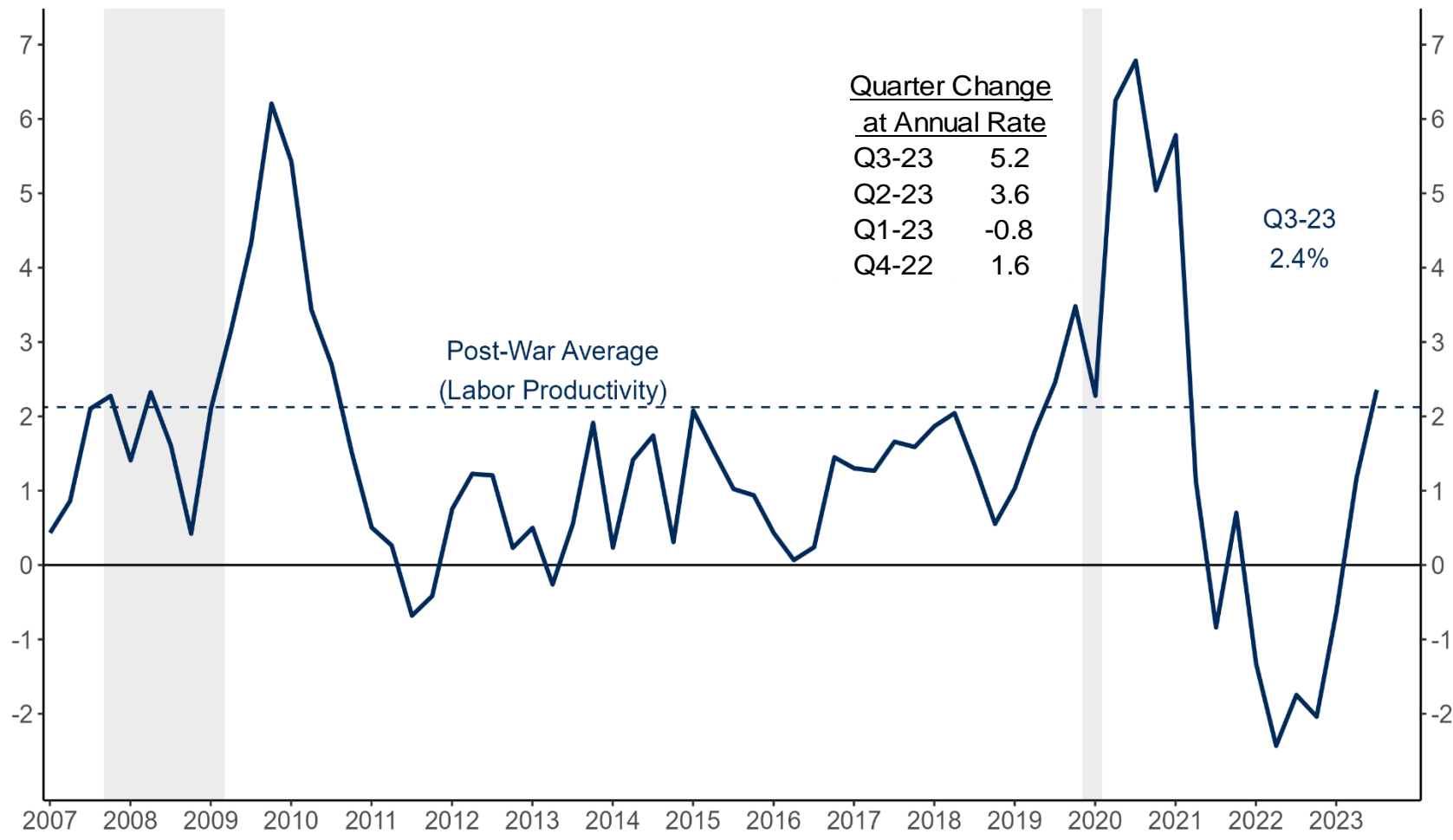
Employment Cost Index



Labor Productivity, Nonfarm Business

Labor Productivity, Nonfarm Business

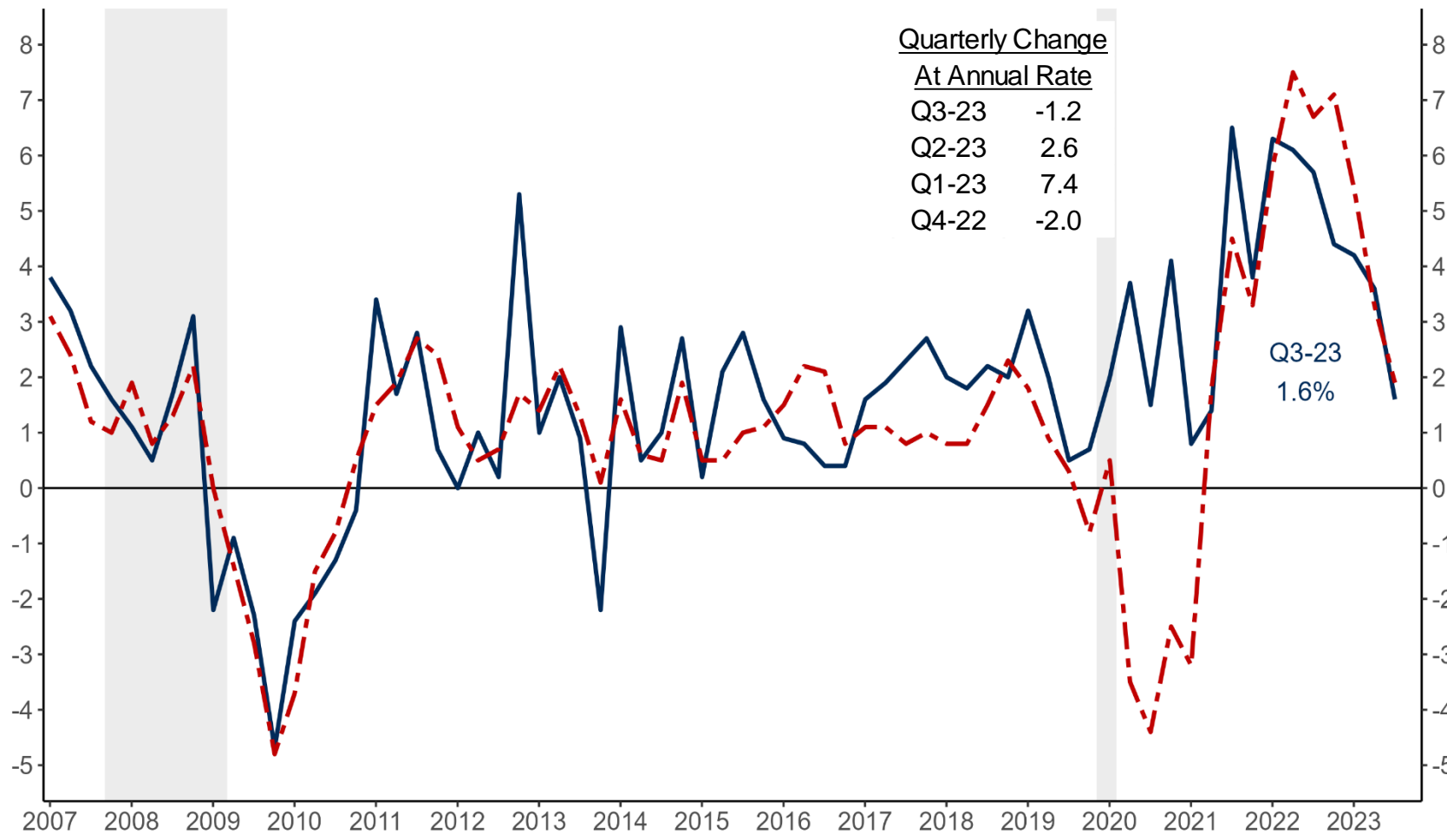
Year over Year Percent Change



Unit Labor Cost, Nonfarm Business

Unit Labor Cost, Nonfarm Business

Year over Year Percent Change



Notes: Alternate series is derived from the Employment Cost Index.

Source: Bureau of Labor Statistics via Haver Analytics 42

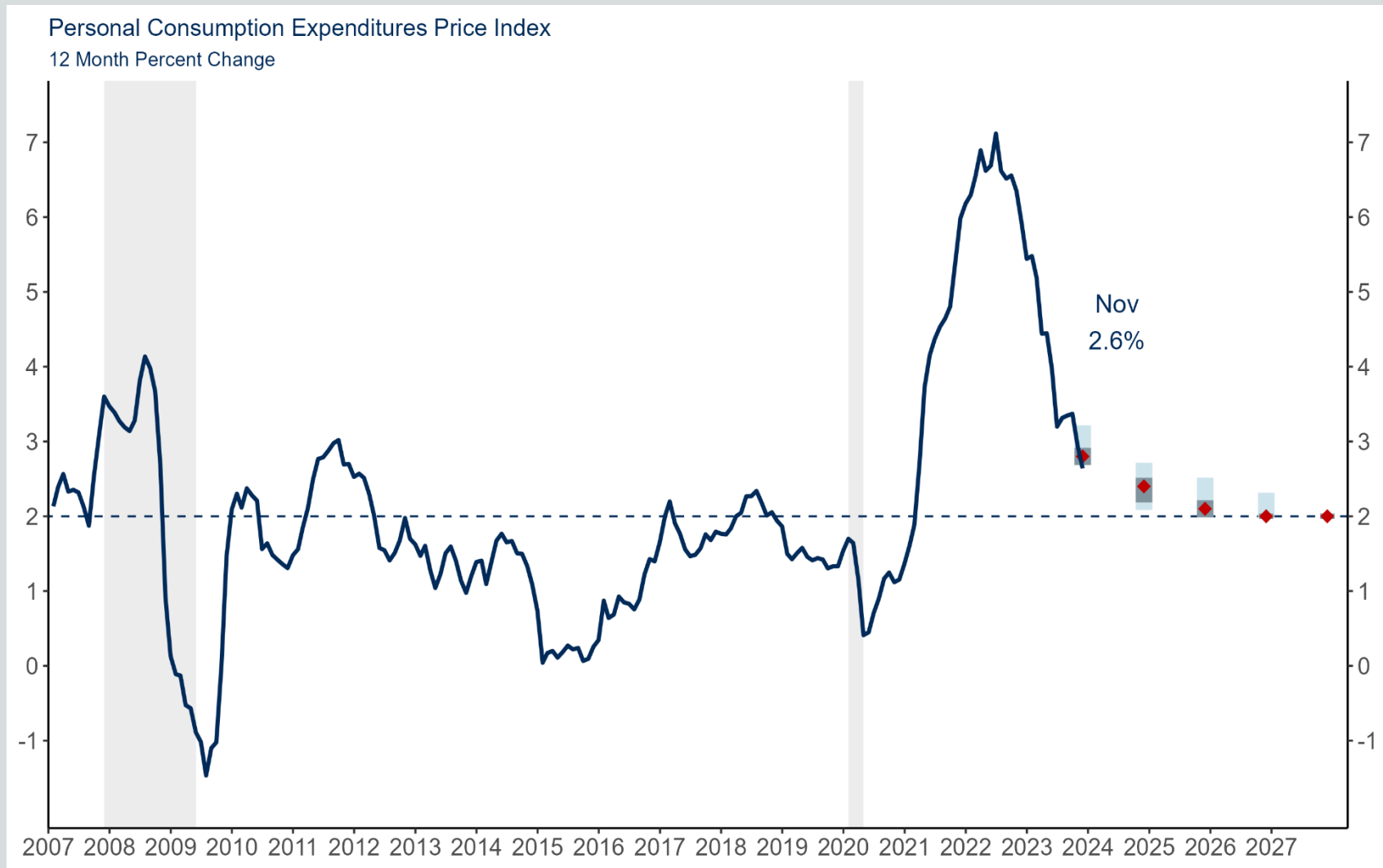
Gauges of Inflation

Expenditure Price Indexes	[Percent Change from Previous Month at Annual Rate]:		
	Oct.	Nov.	YoY %
Personal Consumption Expenditures	0.4	-0.9	2.6
Core (excludes Food and Energy)	1.8	0.7	3.2
Consumer Price Indexes	[Percent Change from Previous Month at Annual Rate]:		
	Oct.	Nov.	YoY %
All Items	0.5	1.2	3.1
Core (excludes Food and Energy)	2.8	3.5	4.0
Producer Price Indexes	[Percent Change from Previous Month at Annual Rate]:		
	Oct.	Nov.	YoY %
Final Demand Goods	-5.2	-0.1	0.8
Core (excludes Food and Energy)	-0.1	0.4	2.0
Core Intermediate Goods	-1.0	-2.5	-1.6
Crude Goods	-19.5	-15.9	-12.9
Spot Commodity Price Index	[Percent Change from Previous Month]:		
	Nov.	Dec.	YoY %
CRB Spot Commodity Price Index	-1.8	-3.7	-8.0

Notes: Core PCE Price Index includes expenditures on food services.

Source: BEA, BLS, & Commodity Research Bureau via Haver Analytics

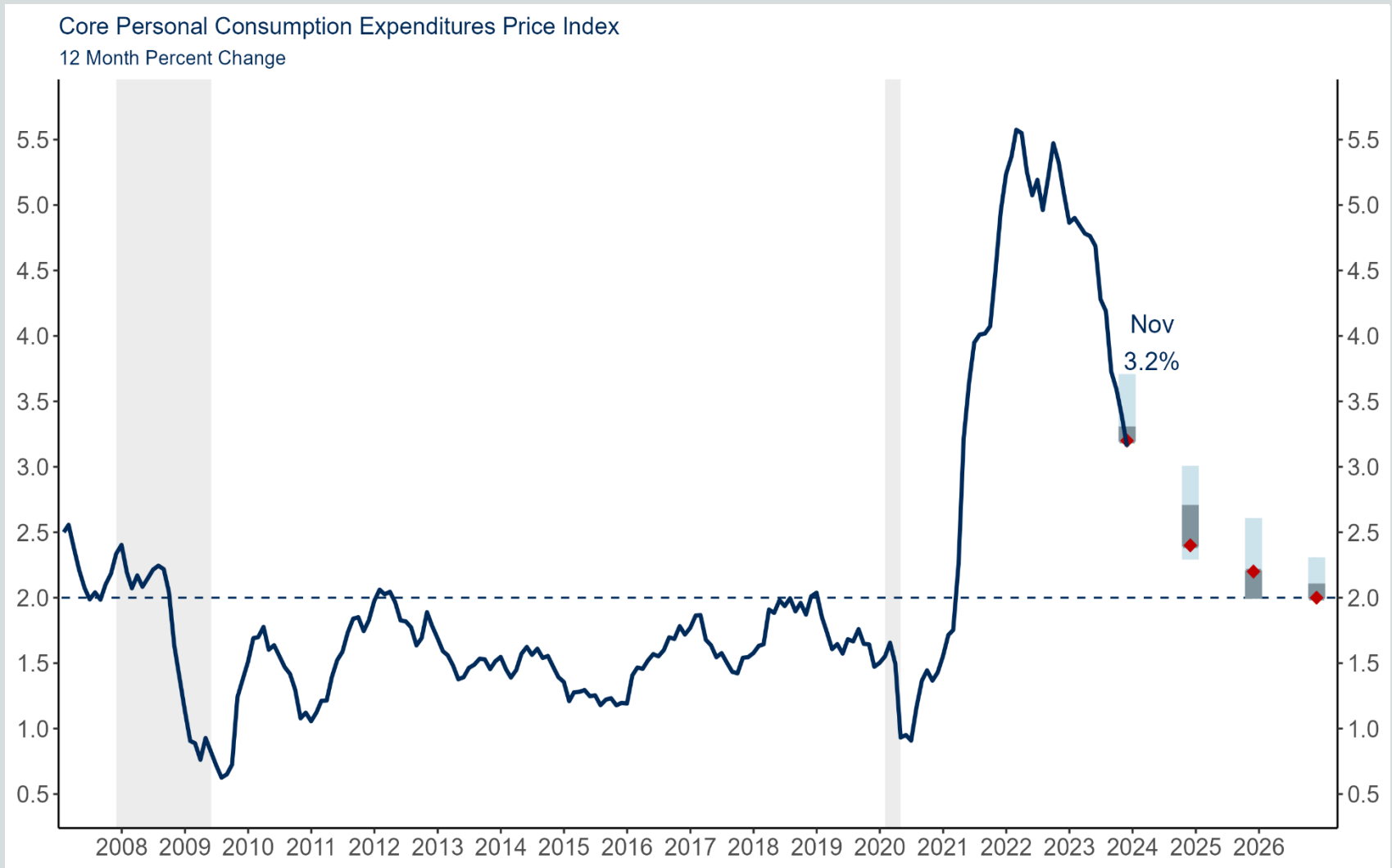
Personal Consumption Expenditure Price Index



Notes: FOMC projection is the median, range, and central tendency for Q4/Q4 percent changes, from the March 2023 meeting. Red dots indicate median projections.

Source: Bureau of Economic Analysis & Board of Governors via Haver Analytics

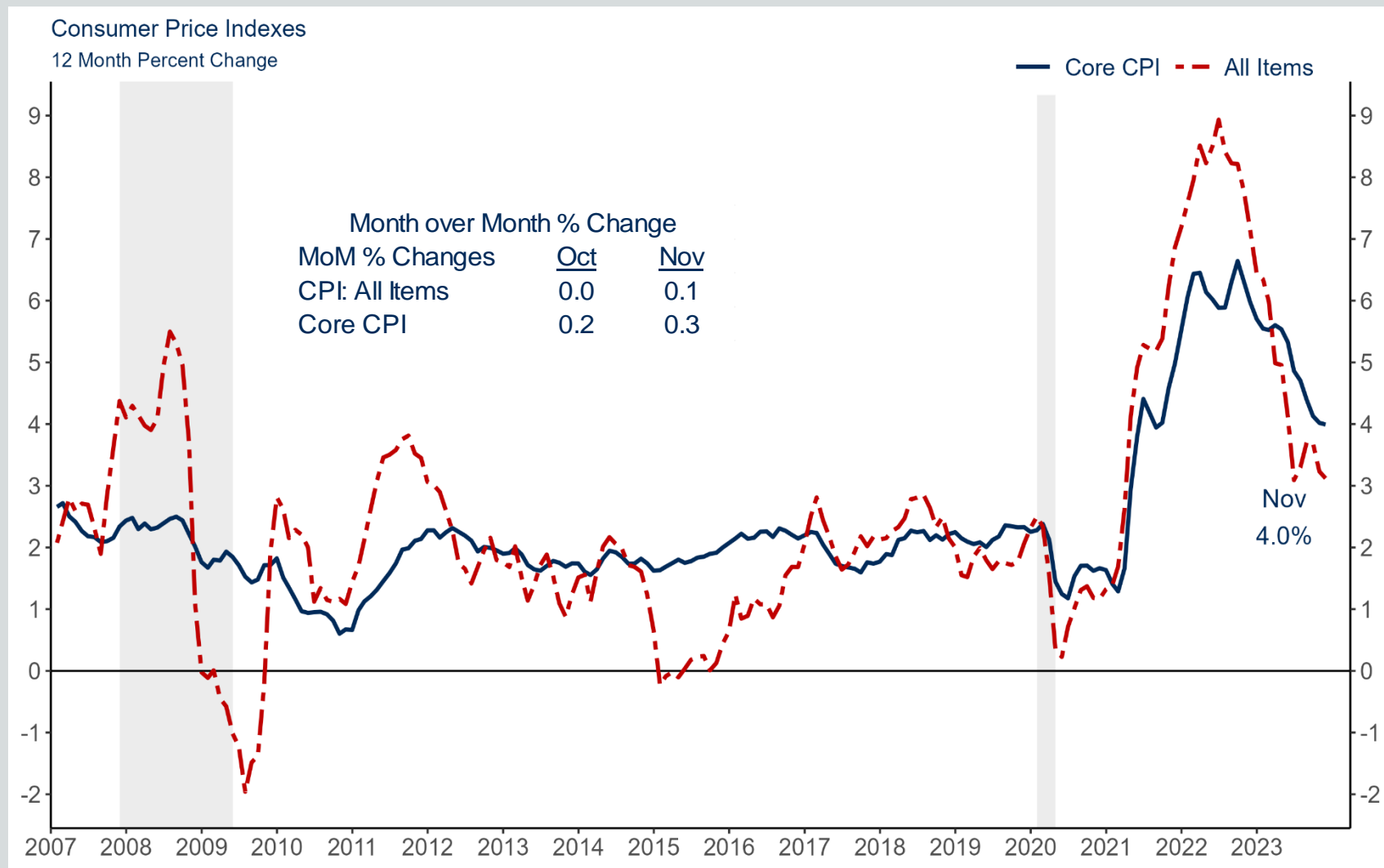
Core Personal Consumption Expenditure Price Index



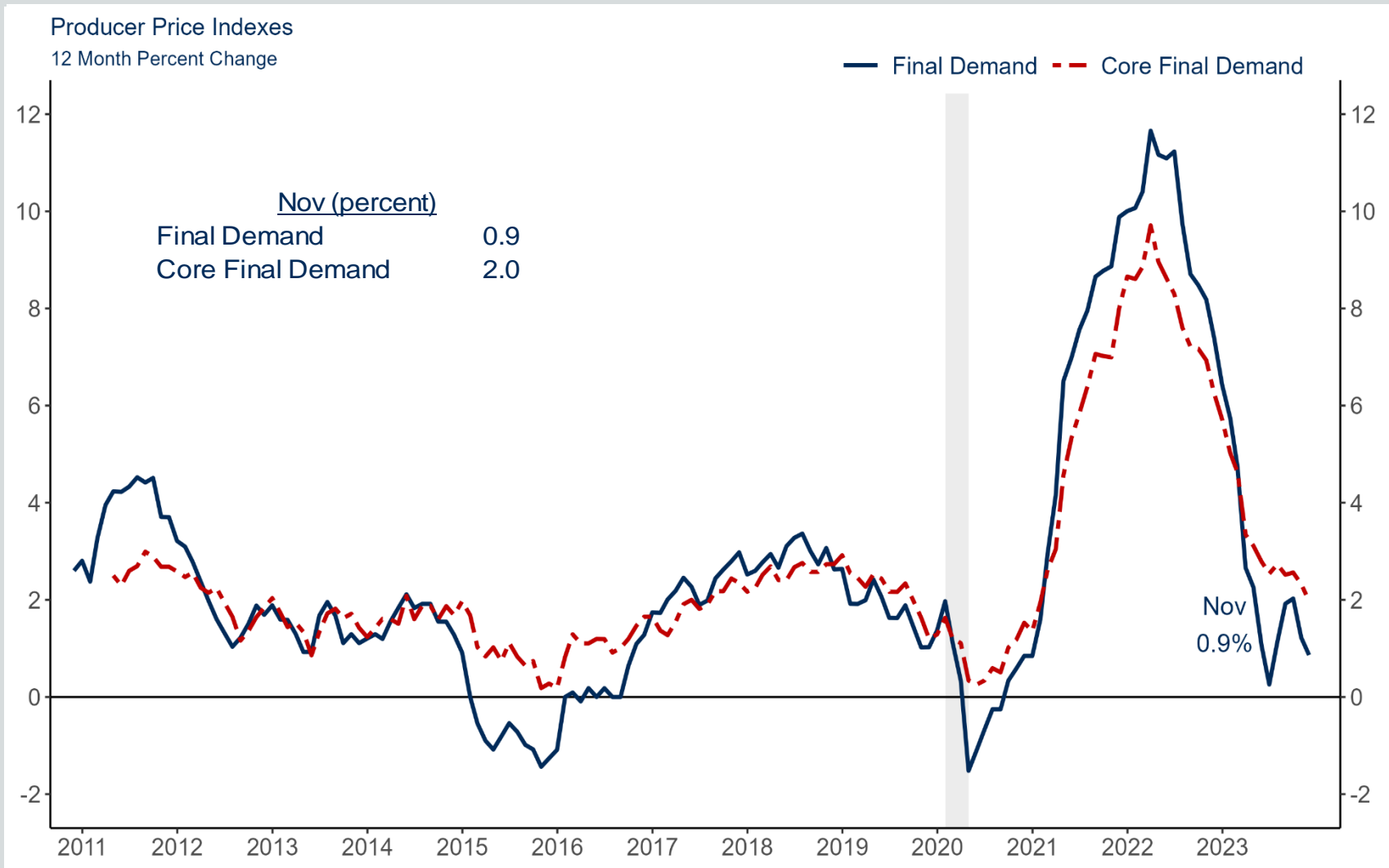
Notes: FOMC projection is the median, range, and central tendency for Q4/Q4 percent changes, from the March 2023 meeting. Red dots indicate median projections. Core PCE Price Index excludes expenditures on gasoline and food services.

Source: Bureau of Economic Analysis & Board of Governors via Haver Analytics 45

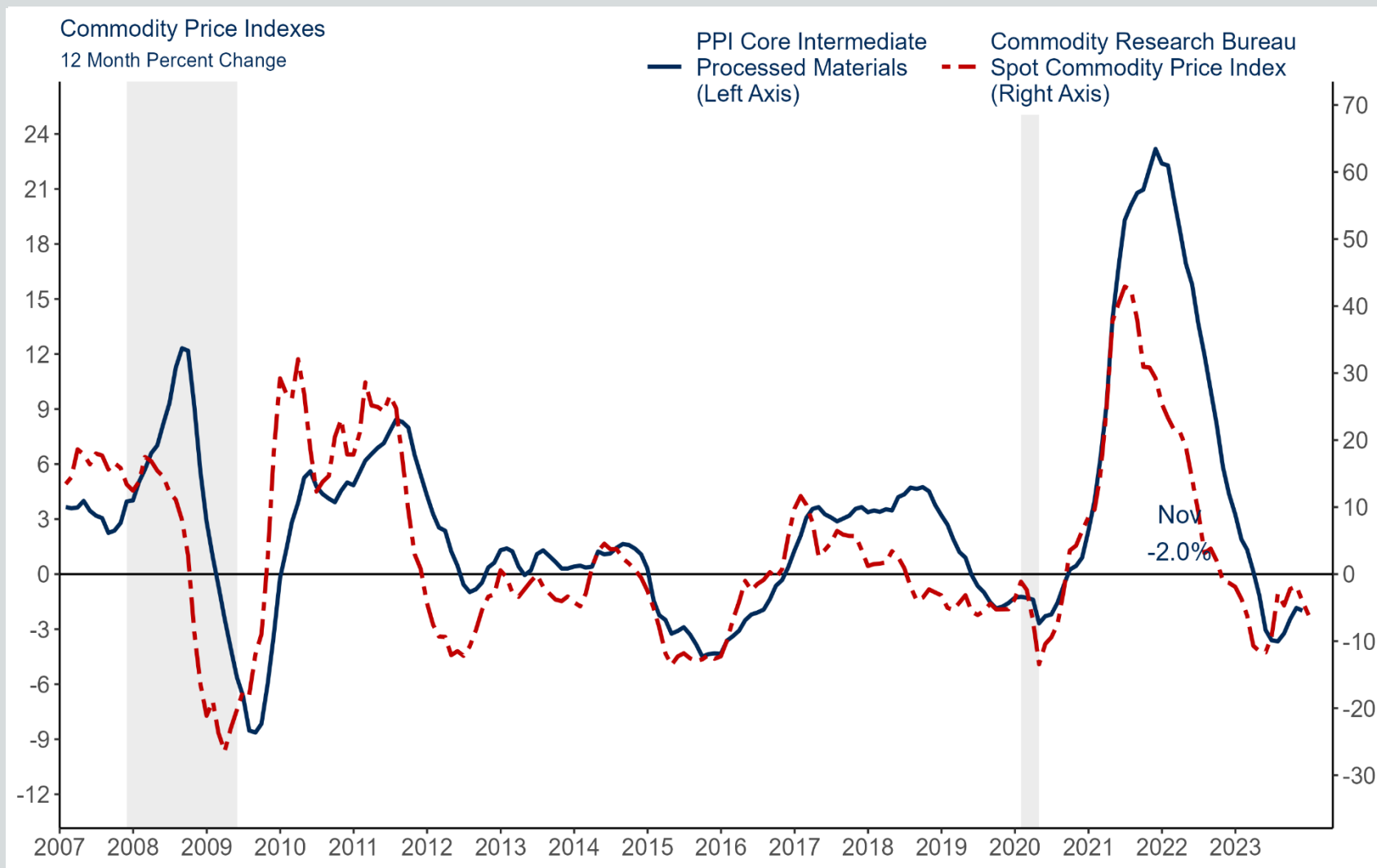
Consumer Price Indexes



Producer Price Indexes



Commodity Price Indexes



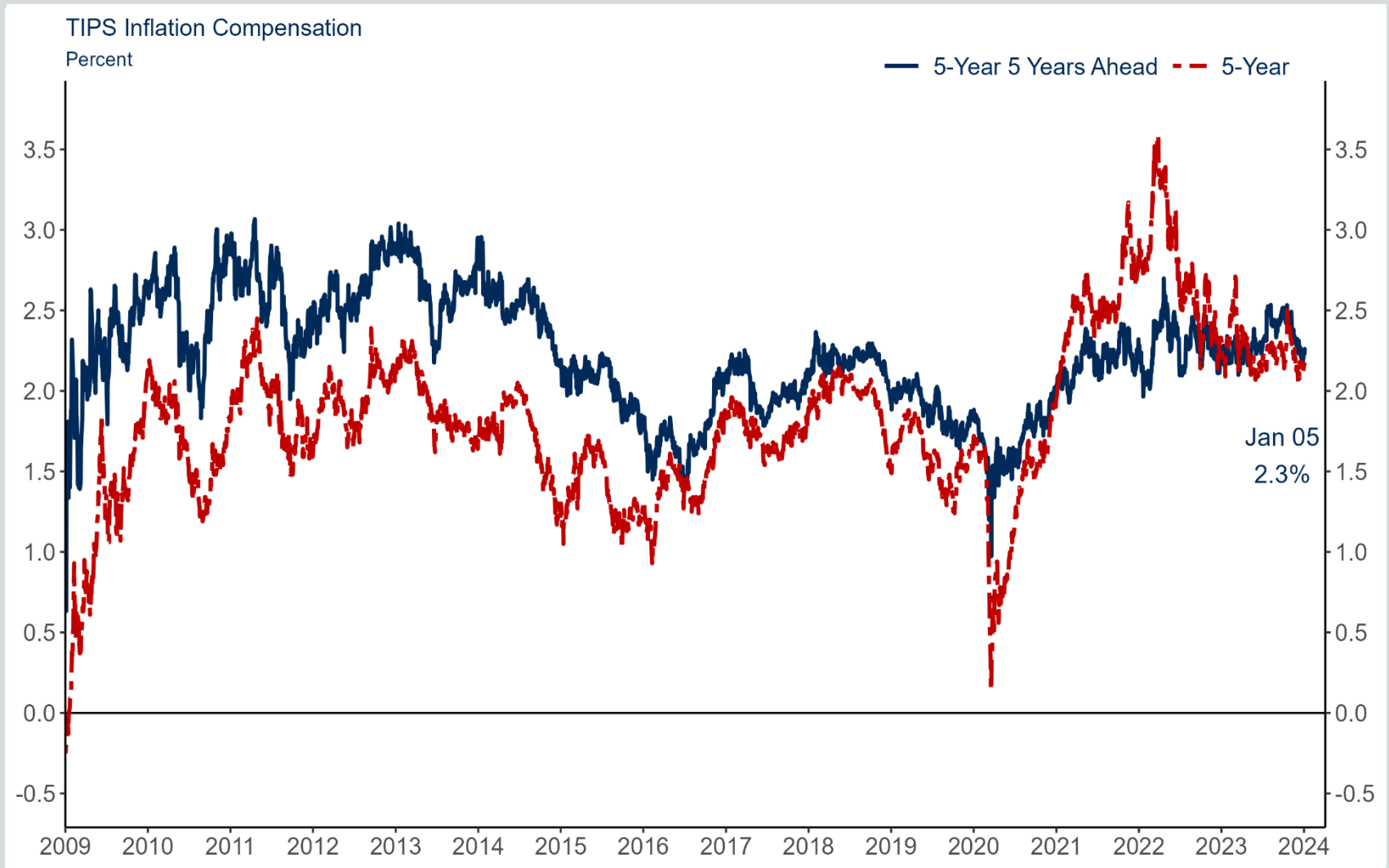
Crude Oil Prices



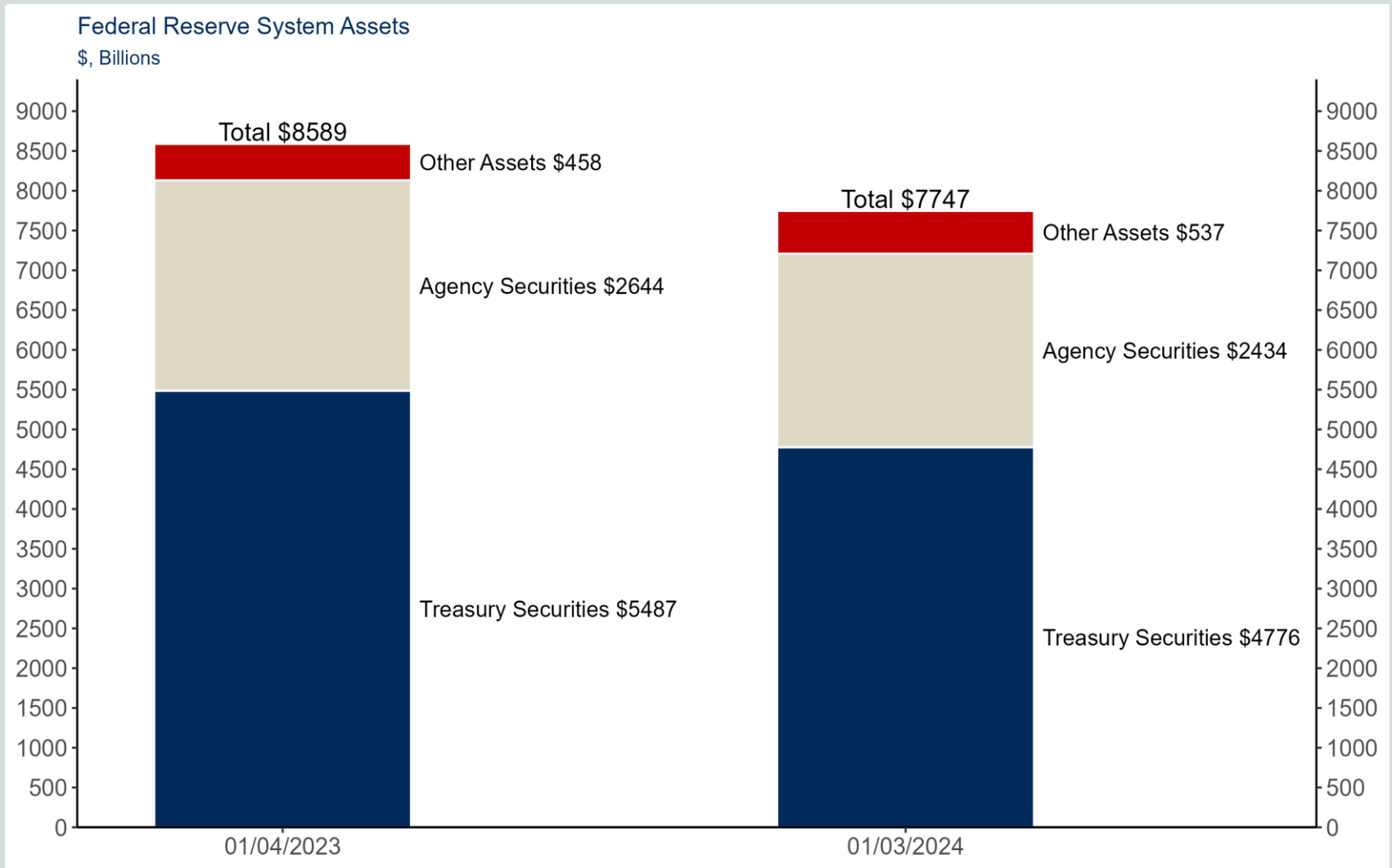
Notes: Spot and Futures Prices are for Brent Crude Oil.

Source: Financial Times via Haver Analytics & Chicago Mercantile Exchange 49

TIPS Inflation Compensation

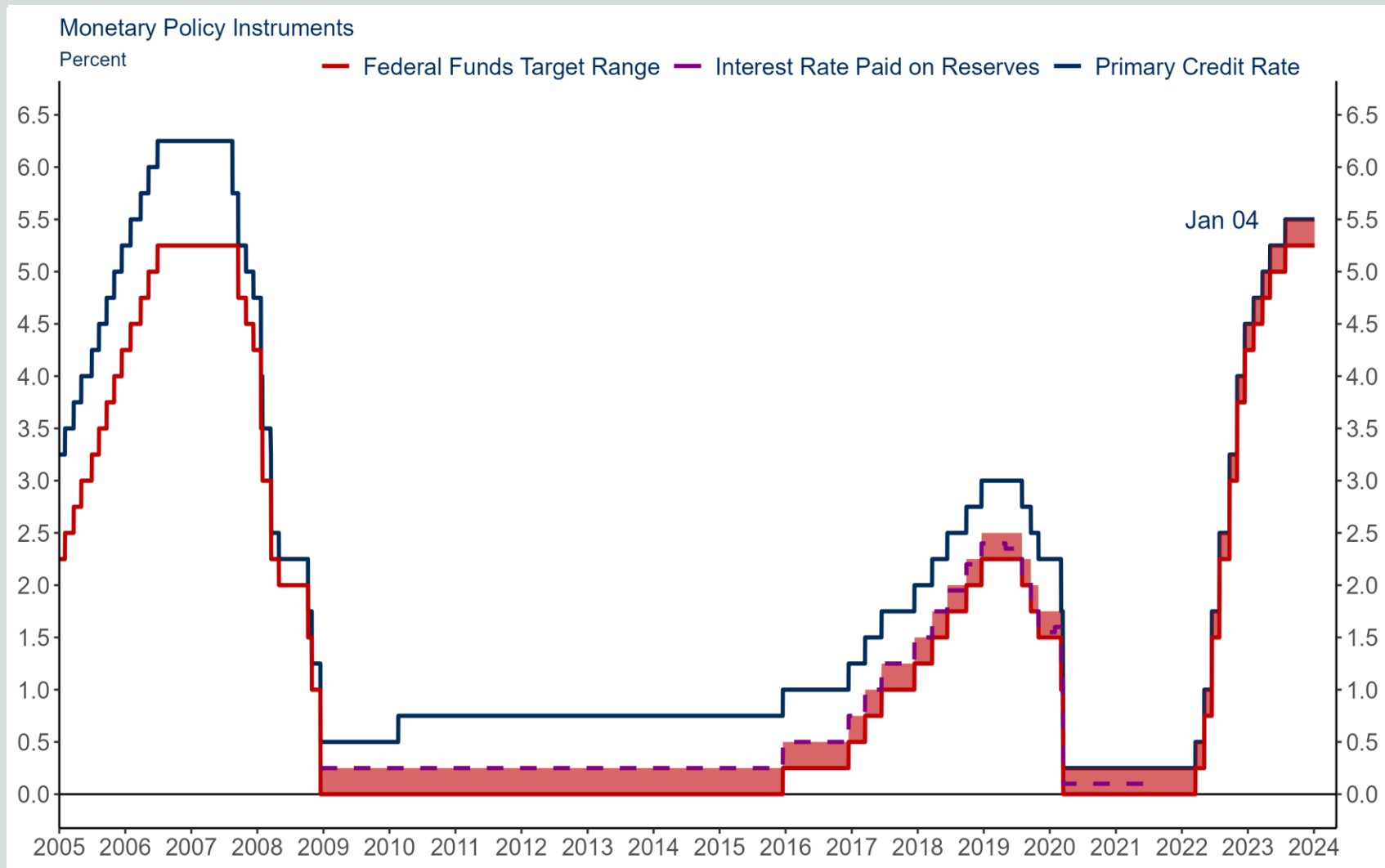


Federal Reserve System Assets

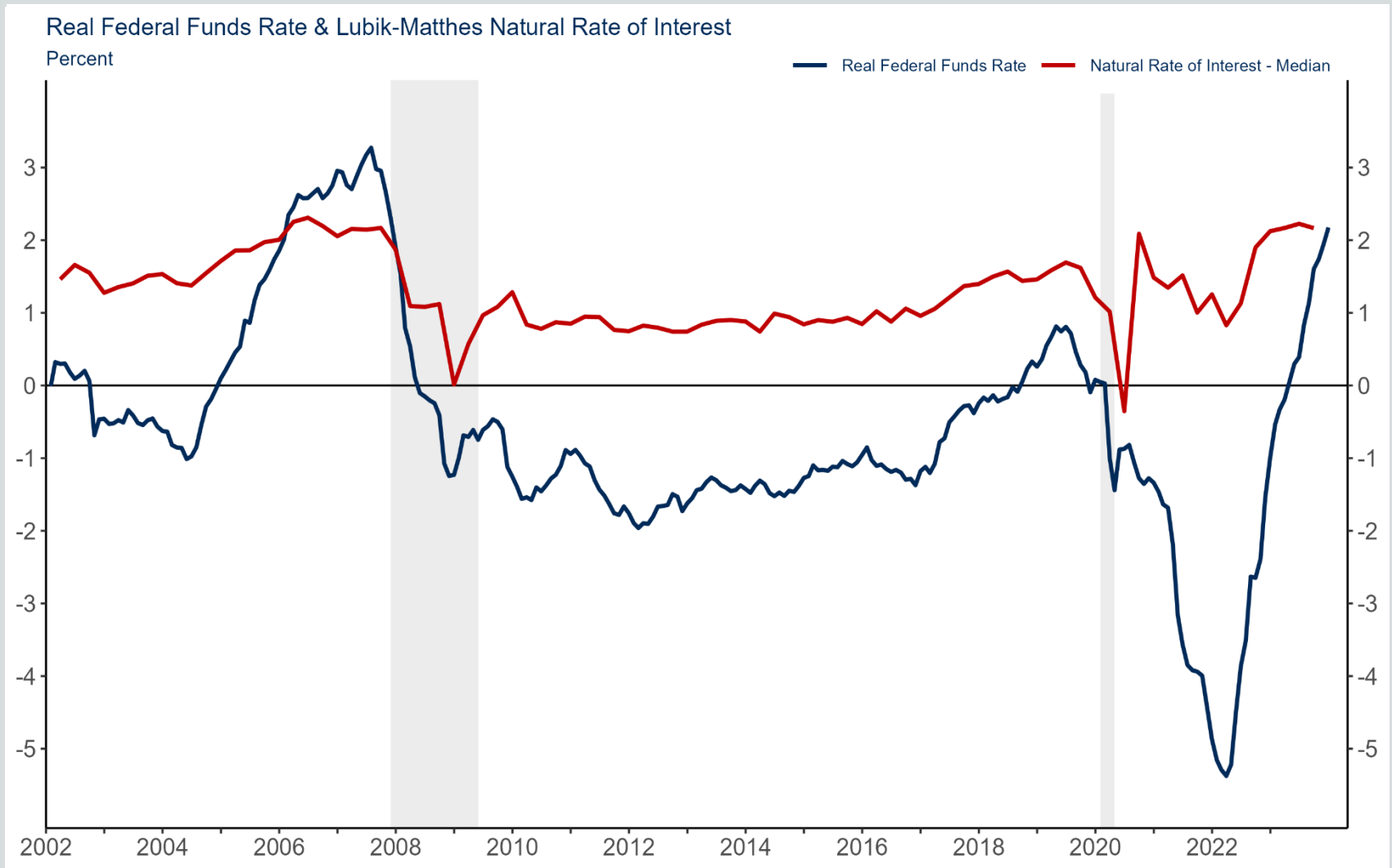


Note: Numbers may not add up due to rounding.

Monetary Policy Instruments



Real Federal Funds Rate



Note: The Real Federal Funds Rate is the difference between the effective Fed Funds rate and the lagged year-over-year change in the core PCE price index.

FOMC Statement

December 13th, 2023

Recent indicators suggest that growth of economic activity has slowed from its strong pace in the third quarter. Job gains have moderated since earlier in the year but remain strong, and the unemployment rate has remained low. Inflation has eased over the past year but remains elevated.

The U.S. banking system is sound and resilient. Tighter financial and credit conditions for households and businesses are likely to weigh on economic activity, hiring, and inflation. The extent of these effects remains uncertain. The Committee remains highly attentive to inflation risks.

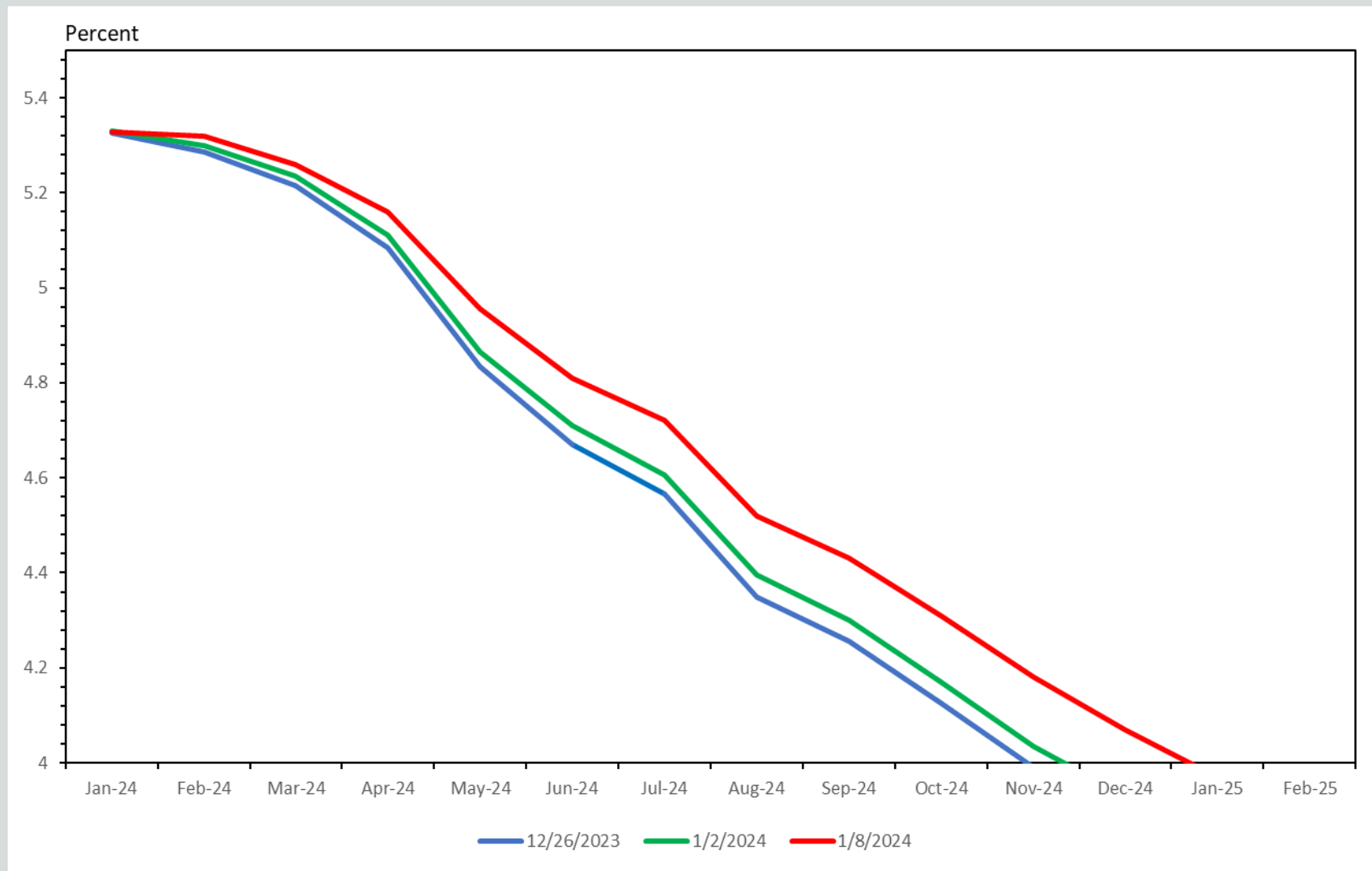
The Committee seeks to achieve maximum employment and inflation at the rate of 2 percent over the longer run. In support of these goals, **the Committee decided to maintain the target range for the federal funds rate at 5-1/4 to 5-1/2 percent.** The Committee will continue to assess additional information and its implications for monetary policy. In determining the extent of any additional policy firming that may be appropriate to return inflation to 2 percent over time, the Committee will take into account the cumulative tightening of monetary policy, the lags with which monetary policy affects economic activity and inflation, and economic and financial developments. In addition, the Committee will continue reducing its holdings of Treasury securities and agency debt and agency mortgage-backed securities, as described in its previously announced plans. The Committee is strongly committed to returning inflation to its 2 percent objective.

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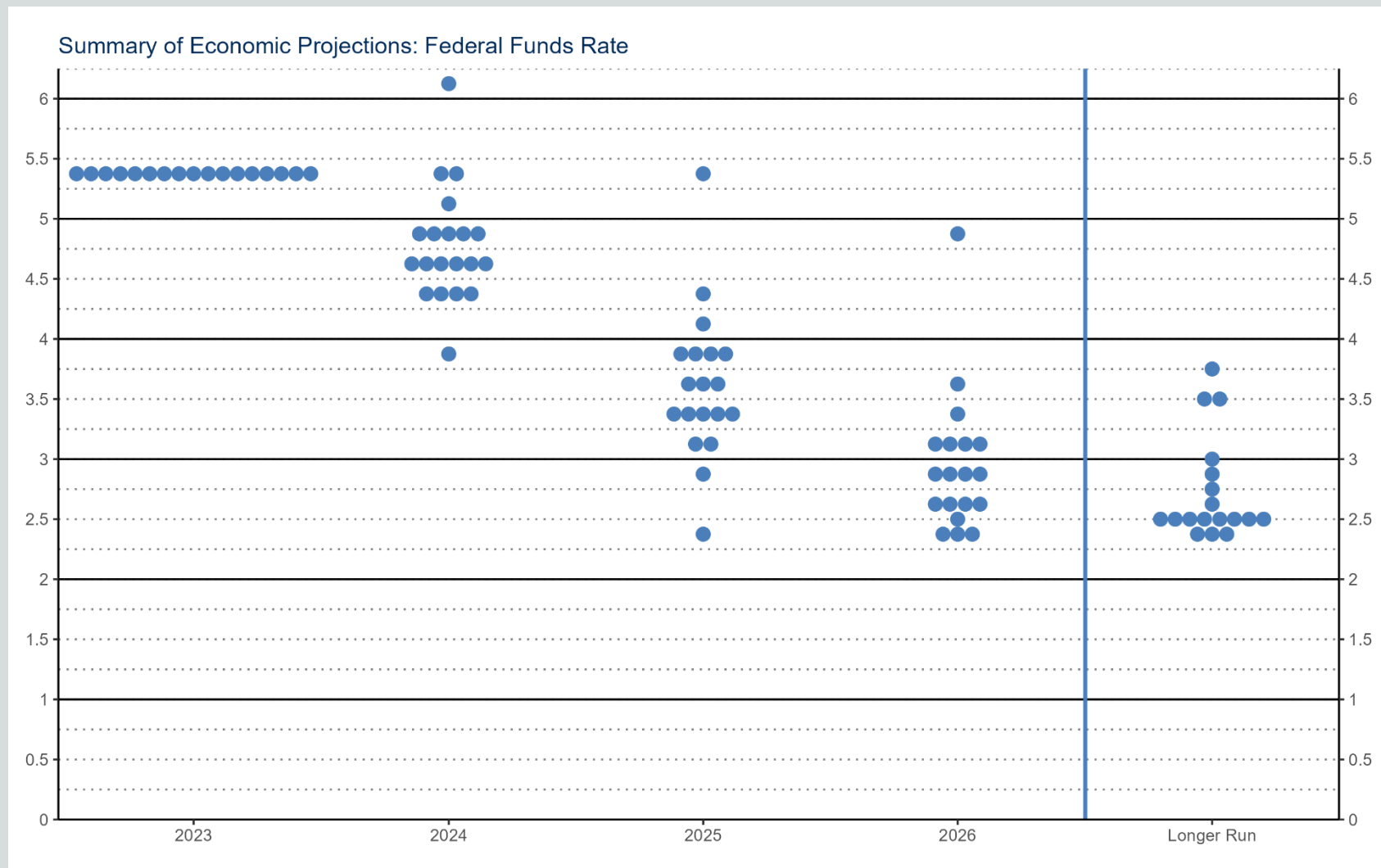
In assessing the appropriate stance of monetary policy, the Committee will continue to monitor the implications of incoming information for the economic outlook. The Committee would be prepared to adjust the stance of monetary policy as appropriate if risks emerge that could impede the attainment of the Committee's goals. The Committee's assessments will take into account a wide range of information, including readings on labor market conditions, inflation pressures and inflation expectations, and financial and international developments.

Voting for the monetary policy action were Jerome H. Powell, Chair; John C. Williams, Vice Chair; Michael S. Barr; Michelle W. Bowman; Lisa D. Cook; Austan D. Goolsbee; Patrick Harker; Philip N. Jefferson; Neel Kashkari; Adriana D. Kugler; Lorie K. Logan; and Christopher J. Waller.

Fed Funds Futures



Summary of Economic Projections: Federal Funds Rate



Note: Each dot in the chart represents the value of an FOMC participant's judgment of the midpoint of the appropriate target range (or the appropriate target level) for the federal funds rate at the end of the calendar year. Projections made during the December 2023 meeting.

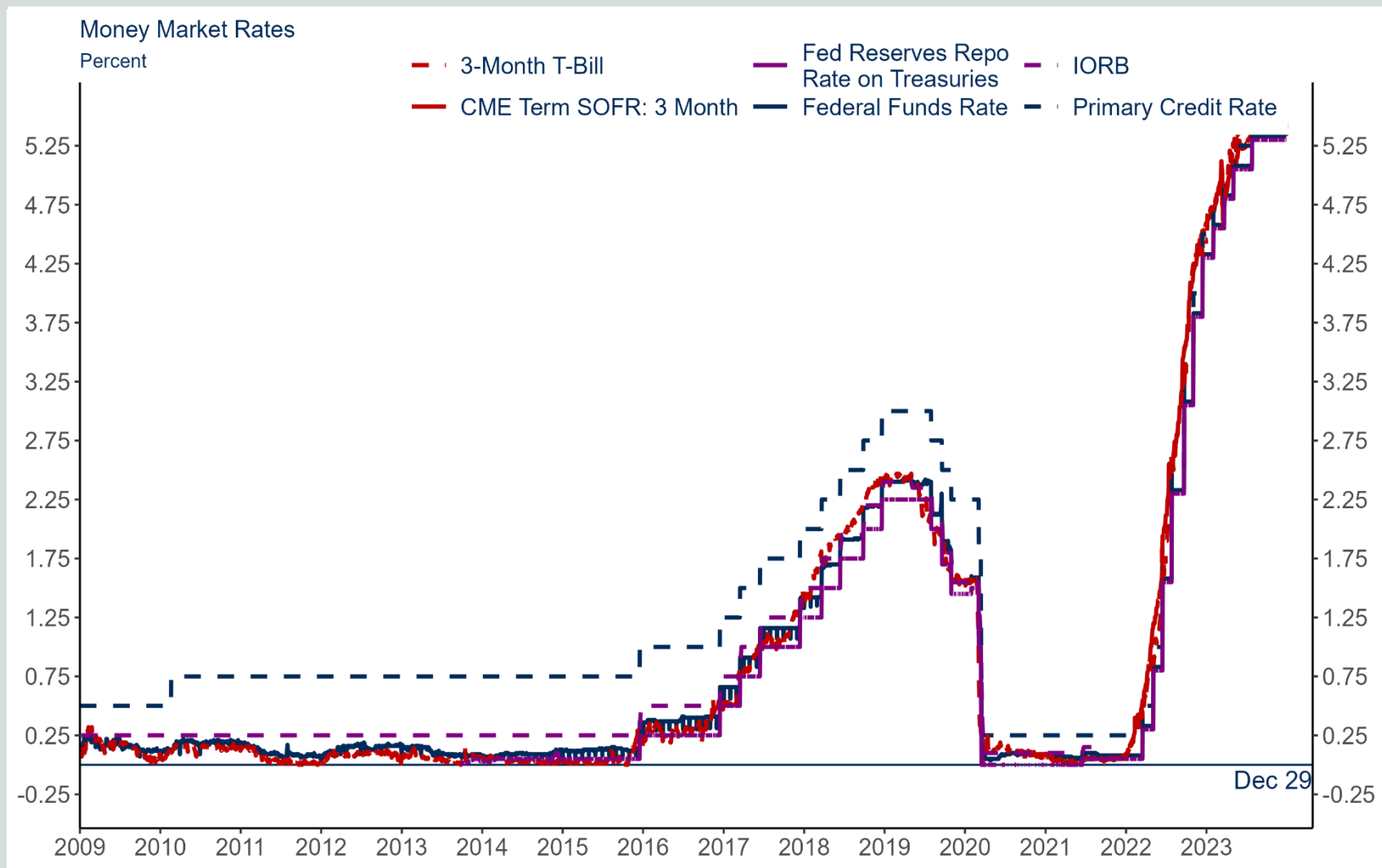
Monetary Base



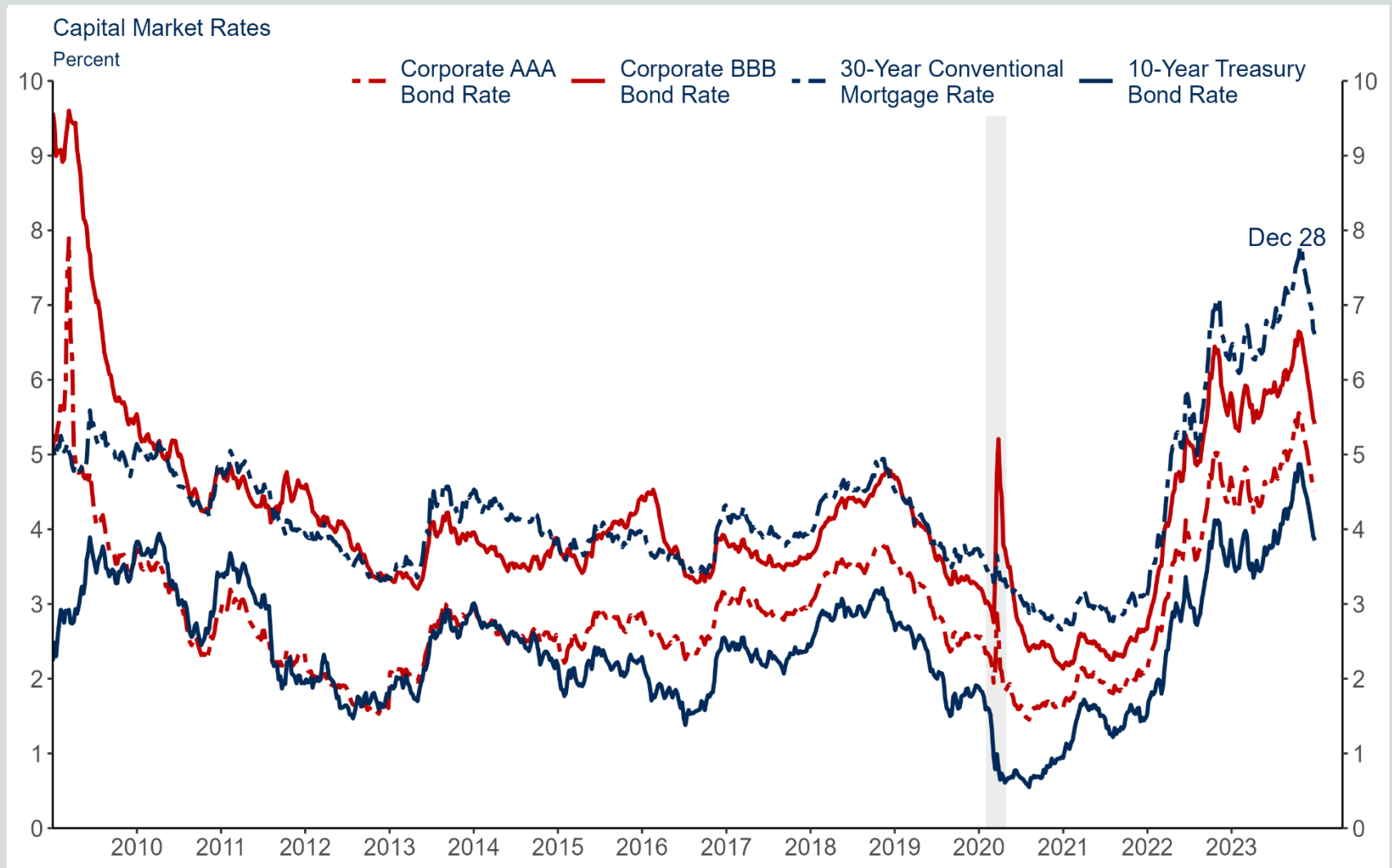
M2



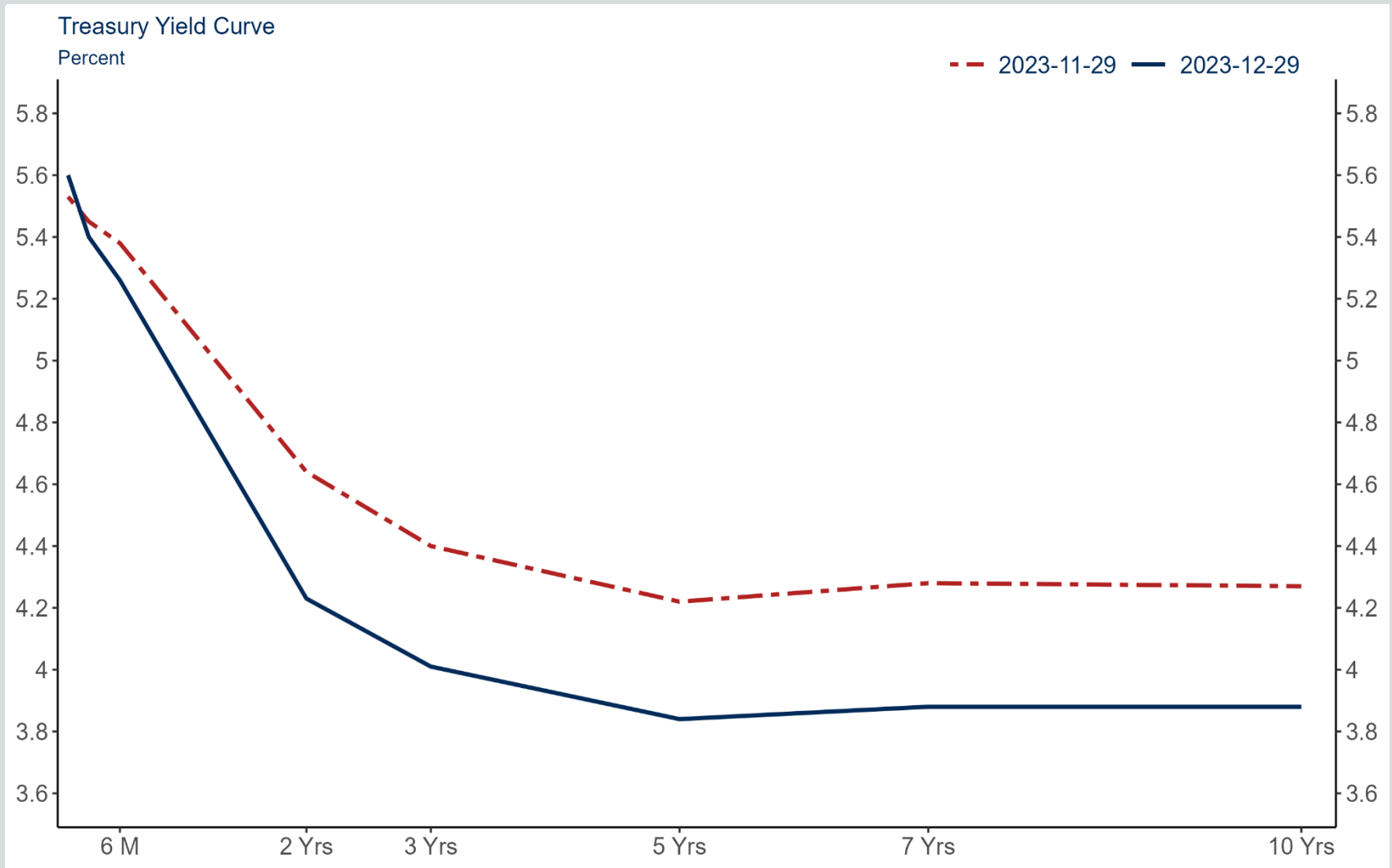
Money Market Rates



Capital Market Rates



Treasury Yield Curve



Risk Premium



Note: Risk Premium is defined as the difference in yields between BofA Merrill Lynch BBB and 10-year Treasury.

Source: BofA Merrill Lynch & Board of Governors via Haver Analytics