



# US Chartbook

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*Open source notes on the United States economy*

## Warning

Likely contains errors, use with caution!

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## About the Chartbook

The US chartbook is a collection of notes describing economic and social developments in the United States since 1989. The notes are grouped into sections, each covering one macroeconomic sector or one major aspect of the economy. Each section contains charts, tables, descriptive text, and links to relevant materials.

The chartbook is kept up to date by connecting to public data sources. The latest version of the chartbook is located at [uschartbook.com](https://uschartbook.com), and the [source code](#) is available on GitHub.

Ultimately, the chartbook aims to be useful for macroeconomic analysis, to inspire researchers and students, and to facilitate research and exploration.

## Key Economic Indicators

The following six charts summarize recent economic developments. Each topic: output, prices, productivity, employment, wage growth, and job growth, is covered in more depth in the chartbook. Click the chart icon [\[icon\]](#) to go to the relevant chartbook section.

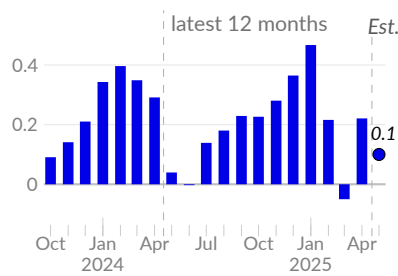
### Real GDP Growth [\[icon\]](#)

seasonally-adjusted annual rate



### Consumer Price Index [\[icon\]](#)

percent change from previous month



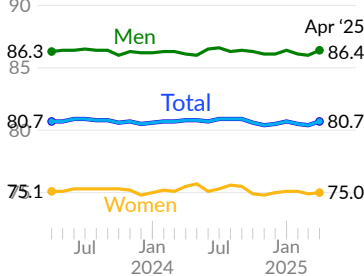
### Productivity Growth [\[icon\]](#)

total economy, annual rate



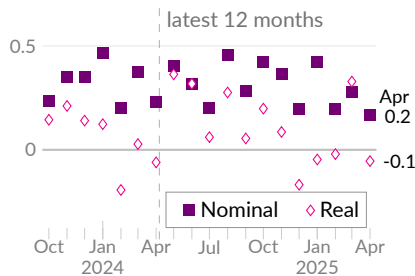
### Employment Rate [\[icon\]](#)

age 25 to 54, percent



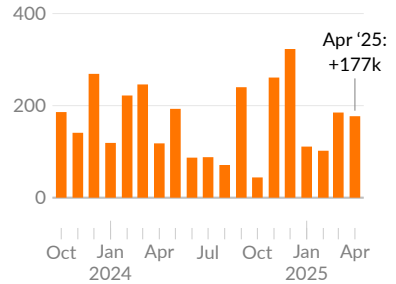
### Average Hourly Earnings [\[icon\]](#)

percent change from previous month



### Private Nonfarm Payrolls [\[icon\]](#)

change from previous month, thousands



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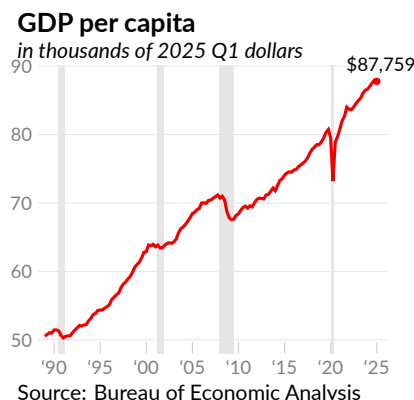
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# Overall Economic Activity

This analysis of the United States economy begins with the most popular measure of overall economic activity, **gross domestic product** (GDP). GDP is the value of goods and services produced in the US in a given time period. According to the Bureau of Economic Analysis, the seasonally-adjusted annualized US GDP was \$29,977 billion in the first quarter of 2025, compared to an inflation-adjusted equivalent of \$26,740 billion in 2019 Q4, and \$11,936 billion in the first quarter of 1989.

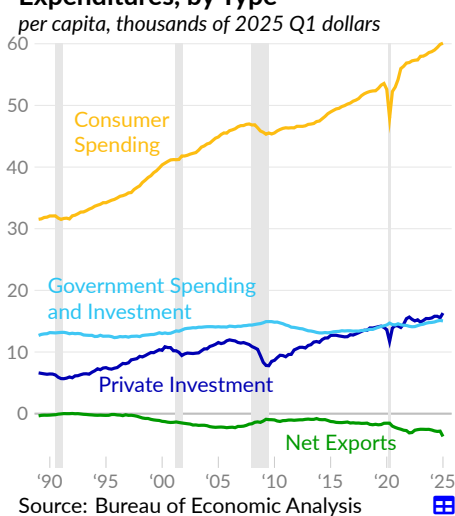
The US population is growing by about seven-tenths of a percent per year. GDP per capita (see —), adjusted for inflation to 2025 Q1 dollars, had increased to \$80,735 in 2019 Q4 from \$48,878 in 1989 Q1, and is currently \$87,759, as of the first quarter of 2025.



## Types of Economic Activity

The **expenditures approach** approach to calculating GDP starts with the sum of major types of domestic spending on finished goods and services: consumer spending, private investment, and government spending and investment. To capture only domestic production, foreign spending on US produced goods and services is added, while imports (spending on non-US-produced goods and services) are subtracted.

### Expenditures, by Type



Much of the increase in GDP over the past 30 years comes from consumer spending. Consumer spending (see —) is equivalent to \$60,090 per person in 2025 Q1, a price-adjusted increase of \$28,562 since 1989.

Gross private domestic investment (see —) is equivalent to \$16,315 per person in 2025 Q1. Government spending and investment (see —) totals \$15,049 per person. The trade deficit, equivalent to \$3,695 per person, is subtracted, to capture only domestic production (see —).

Each of these categories of spending is discussed in more detail in subsequent sections of the chartbook.

### Expenditures, by Type

per capita, seasonally-adjusted annualized rate, 2025 Q1 dollars

	2025 Q1	2024 Q4	2019 Q4	2000 Q1	1989 Q1
— Gross Domestic Product	\$87,759	87,929	80,736	62,864	50,521
— Consumer Spending	60,090	59,899	53,556	40,354	31,528
— Gross Private Domestic Investment	16,315	15,548	13,994	10,275	6,614
— Government Spending & Investment	15,049	15,122	14,246	12,997	12,693
— Net Exports	-3,695	-2,834	-1,558	-1,244	-356
Exports	9,592	9,561	9,254	5,632	2,941
Less: Imports	13,287	12,201	10,354	6,665	3,119

Source: Bureau of Economic Analysis

The [income approach](#) calculates total economic activity as the sum of production income and certain production expenses. Production income is the payment for labor and capital. Labor income, or “compensation of employees” in the national accounts, includes wages and salaries as well supplements such as employer-paid health insurance premiums and retirement account contributions. Capital income, or profit, is listed as the “net operating surplus” in national accounts and includes interest payments, rental profits, business proprietor profits, and corporate profits.

Not all revenue from production provides income directly to people. Tariffs, sales tax, property tax, and licensing fees are indirect business taxes that are not levied directly on income but considered part of the cost of production. Government subsidies, which are income payments for production that did not occur, are subtracted from income measures of production. Lastly, replacing and maintaining buildings and equipment is a growing portion of production costs. This depreciation expense is recorded as “consumption of fixed capital” in national accounts.

The Bureau of Economic Analysis [report](#) seasonally-adjusted annualized [gross domestic income](#) (GDI) of \$29,544 billion in 2024 Q4, which is \$86,599 per capita. [Net domestic income](#) (NDI), equal to GDI less depreciation, is \$24,628 billion in 2024 Q4, or \$72,189 per capita.

### Income, by Type

per capita, thousands of 2024 Q4 dollars



Source: Bureau of Economic Analysis

Labor receives 61.9 percent of NDI in 2024 Q4. Gross labor income per capita is \$44,687 in 2024 Q4 (see —) and \$42,410 in 2019 Q4, on an annualized, seasonally-adjusted, and inflation-adjusted basis.

Profits comprise 30.3 percent of NDI in 2024 Q4. Profits per person total \$21,904 in 2024 Q4 (see —) and \$18,844 in 2019 Q4, following the same adjustments. Indirect taxes less subsidies per capita total \$5,598 in 2024 Q4 (see —) and \$5,360 in 2019 Q4.

Lastly, depreciation per capita is \$14,410 in 2024 Q4 (see —) and \$12,872 in 2019 Q4. Depreciation makes up 16.6 percent of GDI in 2024 Q4.

### Income, by Type

per capita, seasonally-adjusted annualized rate, 2024 Q4 dollars

	2024 Q4	2023 Q4	2019 Q4	2012 Q1	2000 Q1	1989 Q1
Gross Domestic Income	\$86,599	85,027	79,487	70,769	63,247	49,901
— Labor Income	44,687	43,906	42,410	36,806	35,848	27,977
Wages and Salaries	36,876	36,258	34,608	29,761	29,635	23,088
Supplements	7,811	7,648	7,802	7,045	6,213	4,889
— Profit	21,904	21,494	18,844	18,262	14,119	11,193
— Indirect Taxes	5,598	5,492	5,360	4,664	4,070	3,298
Taxes on Production & Imports	5,874	5,794	5,662	4,917	4,350	3,552
Less: Subsidies	276	302	302	254	281	254
— Depreciation	14,410	14,135	12,872	11,037	9,210	7,434

Source: Bureau of Economic Analysis

The **production approach** to GDP identifies how individual industries contribute to domestic production by calculating the **value added** by each industry during the production process. The value added by an industry or sector group is its sales or gross output minus any **intermediate inputs** used in production. The Bureau of Economic Analysis [report](#) GDP by industry, which is summarized briefly in this subsection by grouping the various private industries into broad categories.

The first category combines private goods producing industries: agriculture, forestry, fishing, and hunting (0.9 percent of GDP in 2024 Q4); mining (1.3 percent of GDP); construction (4.5 percent); and manufacturing (9.9 percent), with trade, transportation, and utilities (TTU, combined 16.9 percent of GDP). The second category is finance, insurance, and real estate (FIRE, 21.3 percent of GDP in 2024 Q4) combined with the information industry (5.4 percent of GDP), labeled as FIRE+.

The remaining private services-providing industries include: professional and business services (13.2 percent of GDP in 2024 Q4); education, health care, and social services (8.8 percent of GDP); and arts, entertainment, and recreation (4.4 percent). Separately, public-sector value added in production, at the federal, state, and local levels, is captured by the government category (11.3 percent of GDP).

### Production, by Type

per capita, thousands of 2024 Q4 dollars



Source: Bureau of Economic Analysis

In 2024 Q4, private goods-producing industries and the trade, transportation, and utilities industries add \$29,135 per person in domestic production, on an annualized basis, compared to \$28,024 in 2019 Q4 (see —). Private finance, insurance, real estate, and information industry services add \$23,251 in combined value, per capita in 2024 Q4 and \$20,203 in 2019 Q4 (see —).

All other private services-producing industries combined value added per person is \$24,883 in 2024 Q4 and \$22,171 in 2019 Q4 (see —). Government value added is \$9,856 per person in 2024 Q4 and \$9,668 in 2019 Q4 (see —).

### Production, by Type

per capita, annualized, 2024 Q4 dollars

	2024 Q4	2024 Q3	2019 Q4	2005 Q1	1997 (A)
— Goods and TTU	\$29,135	28,998	28,024	25,264	21,334
Manufacturing	8,609	8,608	8,220	7,688	6,156
Construction	3,908	3,868	4,066	4,892	4,556
Retail Trade	5,477	5,449	4,865	4,109	3,235
— FIRE+	23,251	23,143	20,203	15,795	12,324
Finance & Insurance	6,557	6,522	6,554	6,010	4,463
Information	4,690	4,678	3,448	1,645	1,002
— Other Services	24,883	24,792	22,171	16,915	14,124
Education & Healthcare	7,642	7,575	6,751	5,070	4,357
Professional & Business	11,521	11,466	9,272	6,551	5,285
— Government	9,856	9,805	9,668	10,119	9,876

Source: Bureau of Economic Analysis

## Household Inputs to Production

It is useful to consider household inputs when analyzing economic output. For example, is the population growing? Are more people working? Are people working more hours? Is the economy more productive in its use of labor? These household inputs are summarized below and covered in more depth in subsequent chartbook sections.

First, the US **population** is nearly 342 million, as of April 2025 (see —), an increase of almost 96 million since 1989. Since 1989, the population has grown at an average annual rate of 0.9 percent; the current rate is around 0.5 percent. To maintain a constant standard of living, real GDP would need to increase by the same amount.

Next, the **employment rate** (see —) measures the share of the population that is working. The rate climbs during economic expansions and falls during recessions. Separately, population aging has gradually reduced the potential employment rate. The current rate is 0.9 percentage point above the 30-year average.

Trends in the length of the **average workweek** (see —) are more complicated. Economic output is typically correlated with work hours. However, as workers become more productive, they may increase their leisure time, resulting in shorter workweeks. In April 2025, the average workweek is 36.9 hours.

### Population

millions of people



Source: BEA, Census

### Employment Rate

percent of population, seasonally adjusted



Source: CPS Microdata

### Average Workweek

average hours per worker per week, trend



Source: CPS Microdata

### Total Hours Worked

annualized hours, in billions



Source: Author's Calculations

Combining the population, employment rate, and average workweek, we can estimate the **total hours worked** (see —). Total hours worked represent all households' labor dedicated to production; the total hours of labor that create GDP. Since 1989, total hours worked have increased at an average annualized rate of 1.3 percent. Since the pre-pandemic peak in October 2019, hours worked have increased by a total of 0.5 percent.

After estimating household inputs to production as the total hours worked, we can calculate the **productivity of labor**. The productivity of labor is the relationship between household inputs to production (labor, or hours of work) and economic output (GDP). Specifically, labor productivity is calculated as real GDP divided by hours of work.

An increase in labor productivity means more output is produced per hour of work. As such, labor productivity is major determinant of income levels and quality of life. Labor productivity is discussed in more depth in the labor markets section, but this subsection provides an estimate that is useful for examining the connection between GDP and labor.

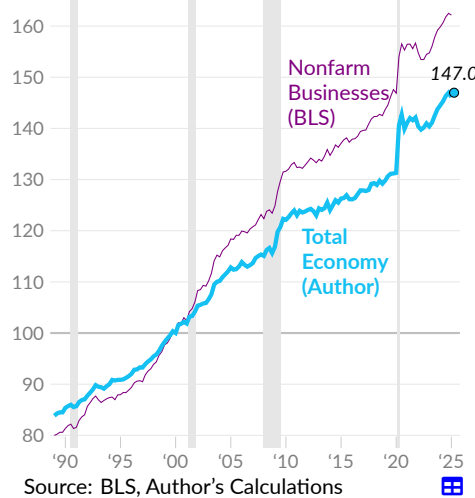
Dividing GDP by the previously calculated total hours worked yields an estimate for labor productivity (see —) for the entire economy that is reasonably methodologically consistent with the official estimate of nonfarm business labor productivity (see —). Nonfarm businesses are about three-quarters of the economy and exclude general government, non-profits, and household services.

Labor productivity has increased substantially over the long term. From 1989 to 1999, labor productivity for the total economy increased 17.2 percent. From 1999 to 2009, labor productivity increased 18.9 percent, and from 2009 to 2019, labor productivity increased 11.1 percent.

From 1989 to 2019, total economy productivity growth averaged 1.5 percent per year; GDP growth averaged 2.5 percent per year and work hours increased one percent per year. Since 2019, total economy labor productivity growth averages 2.1 percent per year, with average GDP growth of 2.2 percent and an average increase of 0.1 percent in work hours.

### Labor Productivity

Real GDP per hour of work, index, 2000=100



More-recent data show annualized total economy productivity growth of -2.3 percent in 2025 Q1. The estimate for 2025 Q2 (see ●), based on the Federal Reserve Bank of Atlanta GDPNow, suggests annualized productivity growth of 2.4 percent.

### Household Inputs to Production

index, January 2000=100, or as noted

	2025 Q2 Est.	2025 Q1	2024 Q4	2024 Q2	2019 Q4	2014	1989
— Labor Productivity (index)	147.0	146.1	147.0	145.3	131.2	125.1	84.3
Real GDP (index)	170.5	169.5	169.6	167.3	151.2	131.6	71.1
Total Hours Worked (index)	116.0	116.0	115.4	115.2	115.3	105.2	84.4
Population (millions)	342.0	341.6	341.2	339.9	331.2	319.6	247.4
Employment Rate (percent)	48.9	49.0	48.8	49.0	49.2	46.9	48.4
Average Workweek (hours)	36.9	36.9	36.9	36.8	37.7	37.3	37.5
Labor Productivity Growth (percent)	2.4	-2.3	1.7	2.2	0.2	0.0	1.1

Source: Bureau of Economic Analysis, Federal Reserve Bank of Atlanta, and Author's Calculations. Growth is the quarterly annualized rate.



## Economic Growth

Economists are particularly concerned with economic growth, measured as changes in the level of economic activity. This subsection discusses economic growth, recessions, and their contributors.

### Real GDP Growth

Real GDP growth [measures](#) changes in economic activity. As seen in the previous subsection, real GDP has increased steadily over the long-term. Since 1989, growth averages 2.5 percent per year (see ■). Growth rates were relatively high during the mid- to late-1990s, averaging 3.9 percent from 1993 to 2000.

In the 2000s, the housing bubble boosted GDP but then collapsed, leading to average growth of only 1.9 percent from 2001 to 2013. Growth was slightly stronger from 2014 to 2019, averaging 2.8 percent per year.

In 2020, COVID-19 caused an economic shutdown, followed by monetary and fiscal stimulus, resulting in large swings in GDP. Annualized real GDP decreased 28.1 percent in Q2, and increased by 35.2 percent in Q3, by far the largest changes in recent history. Since 2019 Q4, real GDP has grown at an average annual rate of 2.2 percent.

### Real Gross Domestic Product Growth

*quarterly growth at seasonally adjusted annual rate, percent*



Source: Bureau of Economic Analysis, Federal Reserve Bank of Atlanta

The bottom-left chart shows annual growth, to make trends more visible. The bottom-right chart shows the most-recent four quarters and the estimate for the current quarter. In the **latest data**, covering the first quarter of 2025, real GDP decreased at an annual rate of 0.3 percent, compared to increases of 2.4 percent in 2024 Q4 and 3.1 percent in 2024 Q3.

The Federal Reserve Bank of Atlanta uses available economic indicators to **nowcast** the current growth rate. The latest nowcast for 2025 Q2 is 2.4 percent, as of May 16, 2025 (see ●).

## Recessions

The long-term pattern in economic growth is often described as the business cycle. Typically, periods of economic growth lasting 7–12 years are interrupted by an **economic recession**, a period where economic activity decreases. The National Bureau of Economic Research (NBER) [identifies](#) four recessions since 1989.

During the early 1990s recession, output contracted for eight months and unemployment was higher than its pre-recession average for 63 months. The drop in output was smaller during the early 2000s recession, but unemployment rates took almost 16 years to recover.

The 2008–2009 great recession, caused by the collapse of a housing bubble, was very severe. The recession lasted 18 months, with higher rates of unemployment lasting 89 months. The most-recent COVID-19 recession was extremely severe and also extremely short-lived, lasting only two months, but with output reduced 9.2 percent.

### US Recessions since 1989

	Start Month	End Month	Recession Duration, Months	GDP Percent Change	Unemp. Rate Change*	Unemp. Rate Recovery, Months**
Early '90s Recession	Aug 1990	Mar 1991	8	-1.4	+2.4	63
Early '00s Recession	Apr 2001	Nov 2001	8	-0.1	+2.1	191
Great Recession	Jan 2008	Jun 2009	18	-3.8	+5.2	89
COVID-19 Recession	Mar 2020	Apr 2020	2	-9.2	+10.9	20

Sources: NBER, BEA, BLS

\*Percentage point change from average unemployment rate during three years prior to recession to peak unemployment rate. \*\*Months from recession start until unemployment rate returns to pre-recession three-year average.

The most-reliable indication that the US has entered a recession (see ■) was identified by [Claudia Sahm](#), and is called the **Sahm rule**. The Sahm rule indicates the start of a recession (see ♦) when the three-month moving average unemployment rate rises by half a percentage point or more above its low during the previous twelve months (see —). In effect, the Sahm rule identifies increases in unemployment that are significant enough to cause or indicate a recession.

### The Sahm Rule

three-month moving average of unemployment rate, percentage points above one-year low



## Nominal GDP

Thus far, the chartbook has used *real* GDP, to distinguish changes in activity from changes in prices. There are, however, instances where **nominal GDP** is useful.

**Nominal GDP growth** serves as a barometer for overall demand. For example, if demand for goods and services increases and supply is able to keep up, both real and nominal GDP will increase. If supply is not able to keep up with higher demand, prices will rise, increasing nominal GDP without increasing real GDP.

In the first quarter of 2025, nominal GDP increased at an annual rate of 3.5 percent, following increases of 4.8 percent in 2024 Q4 and five percent in 2024 Q3. From 1989 to 2019 Q4, nominal GDP increased at an annual rate of 4.6 percent. Since 2019 Q4, the annualized growth rate is 6.1 percent.

### Nominal GDP Growth

*quarterly growth at seasonally-adjusted annualized rate*



## Components of Growth

This subsection examines how different activities contribute to economic growth. The percent change in real GDP is decomposed, using the categories from previous subsections, to show each category's importance to the overall increase or decrease.

First, an overview of contributions to economic growth since 2019. This is followed by an examination of longer-term trends and recent developments for each approach to calculating overall economic activity. Subsequent sections of the chartbook dig deeper into the contributions from subcategories, such as consumer spending on goods.

### Contribution to Growth Since 2019 Q4

*percentage point contribution to annualized cumulative growth rate*



Source: BEA, Author's Calculations

## Expenditure Approach

The **expenditures approach** to calculating overall economic activity also gives insight into changes in activity. The Bureau of Economic Analysis publish the contribution to GDP growth for each major category of spending. Long-term patterns in these data can provide context for recent developments.

Since 1989, real GDP has grown 2.4 percent per year. Over this period, consumer spending contributed 1.8 percentage points to the annualized change, gross private domestic investment added 0.6 percentage point, government spending and investment added 0.3 point, and net exports subtracted 0.2 point.

In the latest full year of data, covering 2024, GDP growth of 2.8 percent is the result of contributions from consumer spending of 1.9 percentage points, private investment of 0.7 percentage point, government spending and investment of 0.6 percentage point, and net exports of negative 0.4 point.

## Real GDP Growth by Expenditure Type

percentage point contribution to GDP growth



Source: BEA, FRB Atlanta; \*includes change in private inventories

In 2025 Q1, consumer spending (see ■) contributed 1.21 percentage points to real GDP growth. Private domestic investment (see ■) added 3.60 percentage points, government spending and investment (see ■) subtracted 0.25 percentage point, and net exports (see ■) subtracted 4.83 percentage points.

The Federal Reserve Bank of Atlanta GDPNow estimate for 2025 Q2 of 2.4 percent is based on a contribution of 2.49 percentage points from consumer spending, a contribution of 0.13 percentage point from private investment, a contribution of 0.38 point from government, and a subtraction of 0.64 point from net exports.

## Income Approach

The **income approach** to calculating overall economic activity enables decomposing annualized growth into labor income (see ■), profit (see ■), indirect taxes less subsidies (see ■), and depreciation (see ■). This decomposition shows the destination of the gross domestic income (GDI) generated by increased production.

Since 1989, real GDI has grown at an annualized rate of 2.5 percent. Labor receives 1.2 percentage points of this growth, profit claims 0.7 percentage point, indirect taxes minus subsidies receive 0.2 point, and 0.4 point go to depreciation.

In the latest full year of data, 2024, real GDI increased three percent. Labor income contributed 1.7 percentage points, profit added 0.7 percentage point, indirect taxes less subsidies added 0.1 point, and 0.4 point went to depreciation.

## Real GDI Growth by Expenditure Type

*percentage point contribution to real GDI growth*



Source: Bureau of Economic Analysis

In the fourth quarter of 2024, real GDI increased at an annual rate of 4.5 percent, following increases of 1.4 percent in Q3 and two percent in Q2. In the latest quarter, labor income contributed 1.41 percentage points to annualized growth, profit added 2.36 percentage points, changes in indirect tax revenue and subsidies added 0.22 point, and 0.47 point went to depreciation growth.

## Production Approach

The **production approach** calculates GDP as the sum of value added–gross output minus intermediate inputs–in each sector. The broad groupings discussed above are used to identify contributions from: goods-producing sectors combined with trade, transportation, and utilities (see ■), finance, insurance, and real estate plus information (see ■), other service-providing sectors (see ■), and government (see ■).

In 2024 Q4, the combined contribution to GDP growth from private goods-producing industries and trade, transportation, and utilities is 0.8 percentage points, following a contribution of 1.7 percentage points in 2024 Q3, and compared to virtually no contribution in 2019 Q4. The group of private service-providing industries that include finance, insurance, real estate, as well as the information industry, contributed 0.7 percentage point in 2024 Q4, contributed 0.5 percentage point in 2024 Q3, and contributed 1.7 percentage points in 2019 Q4.

Other private services-providing industries, which are wide-ranging and described above, contributed 0.6 percentage point to real GDP growth in 2024 Q4, following a contribution of 0.7 percentage point in 2024 Q3, and compared to a contribution of 0.5 percentage point in 2019 Q4. Combined federal, state, and local government contributed 0.3 percentage point in 2024 Q4, contributed 0.2 percentage point the prior quarter, and contributed 0.5 percentage point in 2019 Q4, prior to the pandemic.

## Real GDP Growth by Industry Group

percentage point contribution to GDP growth



Source: Bureau of Economic Analysis

## Household Inputs

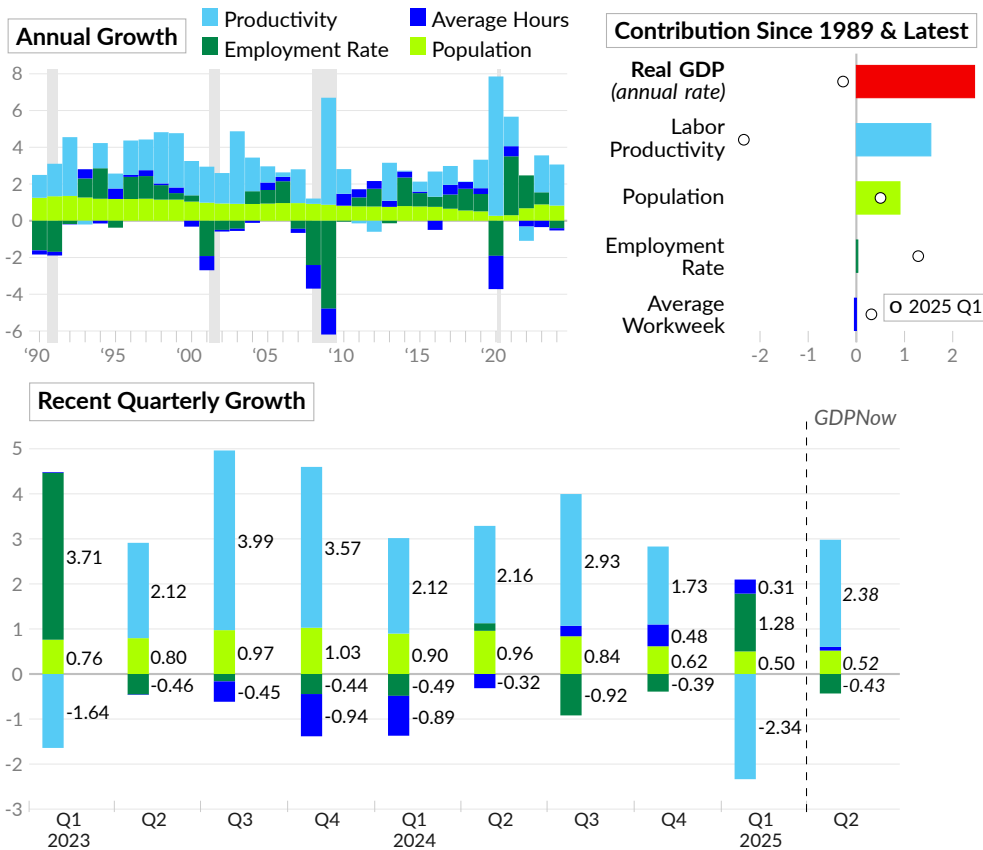
Changes to GDP can also be assigned to changes in **household inputs**: population (see ■), employment rates (see ■), average hours worked (see ■), and total economy productivity (see ■). A key distinction is whether economic growth is associated with more labor, or higher productivity.

Since 1989, and in the long-run, in general, real GDP growth is explained by population growth and labor productivity. The employment rate and average workweek have large swings during any given business cycle, but remain relatively constant since 1989. Real GDP growth of 2.5 percent per year since 1989 is explained by annualized productivity growth of 1.5 percent and population growth of 0.9 percent.

In the latest full year of data, covering 2024, growth is driven largely by an increase in labor productivity, and supported by an increase in population. Labor productivity added 2.2 percentage points, population growth added 0.8 point, and the lower employment rate subtracted 0.4 point from overall growth.

### Real GDP Growth by Household Inputs

percentage point contribution to real GDP growth



Source: BEA, FRB Atlanta, BLS, Author's Calculations

In 2025 Q1, labor productivity subtracted 2.34 percentage points from GDP growth of negative 0.3 percent. The higher employment rate added 1.28 points in the period and population growth added 0.50 point. Average hours worked was little changed in the period.

Using the Atlanta Fed GDPNow and the latest available population and labor force data, we can estimate contributions to growth for 2025 Q2. Real GDP is estimated to increase by 2.4 percent, with contributions of 2.4 percentage points from labor productivity and negative 0.4 percentage point from the lower employment rate.

## Components of Economic Growth

annualized percentage point contribution to real GDP/GDI growth

moving averages

	2025 Q1	2024 Q4	2024 Q3	2024 Q2	2024 Q1	3- year	10- year	30- year
■ <b>Gross Domestic Product</b>	-0.3	2.4	3.1	3.0	1.6	2.4	2.6	2.6
■ Consumer Spending	1.21	2.70	2.48	1.90	1.30	1.76	1.94	1.87
Durable Goods	-0.26	0.87	0.54	0.40	-0.13	0.22	0.42	0.46
Non-Durable Goods	0.37	0.42	0.63	0.23	-0.12	0.19	0.42	0.36
Services	1.10	1.41	1.31	1.27	1.55	1.35	1.09	1.05
■ Gross Investment	3.60	-1.03	0.16	1.47	0.64	0.41	0.67	0.67
Residential	0.05	0.22	-0.18	-0.11	0.53	-0.18	0.07	0.04
Non-Residential	1.29	-0.41	0.55	0.53	0.61	0.66	0.53	0.58
Change in Inventories	2.25	-0.84	-0.22	1.05	-0.49	-0.07	0.06	0.06
■ Net Exports	-4.83	0.26	-0.43	-0.90	-0.61	-0.23	-0.34	-0.23
Exports	0.19	-0.01	1.01	0.12	0.21	0.44	0.21	0.42
Imports	-5.03	0.27	-1.44	-1.01	-0.82	-0.67	-0.56	-0.65
■ Government	-0.25	0.52	0.86	0.52	0.30	0.48	0.35	0.27
Federal	-0.33	0.25	0.55	0.27	-0.02	0.13	0.13	0.11
State and Local	0.08	0.27	0.31	0.25	0.32	0.35	0.22	0.15
■ Goods and TTU	-	0.83	1.68	1.35	0.09	0.78	0.75	-
Manufacturing	-	0.07	0.33	0.79	-0.68	0.05	0.17	-
Construction	-	0.21	-0.01	0.23	0.36	0.04	0.08	-
Retail Trade	-	0.17	1.10	-0.03	0.42	0.46	0.28	-
■ FIRE+	-	0.68	0.48	0.88	0.09	0.48	0.79	-
Information	-	0.09	0.33	0.08	0.11	0.27	0.40	-
■ Other Services	-	0.61	0.67	0.68	1.22	0.87	0.95	-
Education & Healthcare	-	0.37	0.40	0.33	0.41	0.38	0.28	-
Professional & Business	-	0.34	0.27	0.25	0.55	0.42	0.59	-
■ Government	-	0.30	0.23	0.09	0.21	0.22	0.13	-
■ Population	0.50	0.62	0.84	0.96	0.90	0.80	0.62	0.85
■ Employment Rate	1.28	-0.39	-0.92	0.17	-0.49	0.48	0.78	0.21
■ Average Hours	0.31	0.48	0.23	-0.32	-0.89	-0.22	-0.12	-0.05
■ Productivity	-2.34	1.73	2.93	2.16	2.12	1.37	1.60	1.66
<b>Gross Domestic Income</b>	-	4.5	1.4	2.0	3.0	2.2	2.5	2.6
■ Labor	-	1.41	0.28	0.41	3.34	0.76	1.24	1.26
■ Profit	-	2.36	0.18	0.97	-0.74	0.48	0.64	0.75
■ Depreciation	-	0.47	0.70	0.52	0.15	0.48	0.45	0.45
■ Indirect Taxes	-	0.22	0.19	0.11	0.19	0.47	0.21	0.17

Source: Bureau of Economic Analysis and Author's Calculations

TTU is trade, transportation and utilities; FIRE+ includes the finance, insurance, real estate, and information industries.



## Real GDP Growth by State

percentage point change in real GDP



Source: Bureau of Economic Analysis

Lastly, the Bureau of Economic Analysis also [report](#) real GDP growth by state. Over the year ending 2024 Q4, no states had real GDP growth of more than five percent, 47 states and the District of Columbia had growth between zero and five percent, and three states had negative GDP growth.

## Real GDP Growth by State

quarterly growth at seasonally adjusted annualized rate

total growth, as of 2024 Q4

	2024 Q4	2024 Q3	2024 Q2	2024 Q1	2023 Q4	1-year*	2-year	5-year
<b>United States</b>	2.5	3.1	3.0	1.6	3.2	2.5	5.8	12.2
<b>West South Central</b>	3.5	4.1	2.7	0.1	5.4	2.6	9.1	17.1
Texas	3.5	4.2	2.8	0.2	5.4	2.7	9.5	19.7
Oklahoma	3.4	3.5	2.3	-2.5	3.9	1.6	8.1	7.1
Louisiana	2.9	2.3	3.0	-1.3	7.5	1.7	8.0	5.0
Arkansas	5.1	6.9	1.5	5.1	4.4	4.6	6.6	17.2
<b>Pacific</b>	1.5	3.0	2.7	4.8	2.9	3.0	6.7	12.6
Washington	1.4	3.0	2.2	1.5	6.9	2.0	7.9	18.4
Alaska	4.0	2.2	-1.1	-1.2	0.3	0.9	6.8	4.9
California	1.4	3.1	2.8	6.3	2.3	3.4	6.8	12.2
Oregon	1.2	2.6	3.3	-1.9	0.7	1.3	3.6	9.6
Hawaii	2.2	2.6	1.4	1.2	3.3	1.8	3.6	1.9
<b>Mountain</b>	2.7	3.1	3.1	0.9	3.2	2.5	6.4	16.9
Utah	3.9	4.5	4.8	4.8	3.1	4.5	8.9	22.3
New Mexico	2.6	2.6	1.7	-1.8	5.5	1.3	7.4	11.7
Montana	2.7	-0.1	3.2	-0.1	2.1	1.4	7.1	16.1
Wyoming	3.8	1.9	3.5	-7.2	0.2	0.4	6.6	5.1
Idaho	-0.0	4.8	5.9	1.5	6.0	3.0	6.3	21.6
Colorado	2.4	3.4	2.7	-1.7	2.6	1.7	5.9	15.3
Arizona	3.3	3.1	3.1	2.1	2.9	2.9	5.6	19.4
Nevada	1.9	1.8	1.8	2.8	3.9	2.1	5.5	13.0

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■ Overall Economic Activity

	2024 Q4	2024 Q3	2024 Q2	2024 Q1	2023 Q4	1-year*	2-year	5-year
continued from previous page . . .								
<b>South Atlantic</b>	2.8	3.2	3.2	2.7	4.5	3.0	6.1	15.5
South Carolina	3.6	3.0	4.5	4.2	4.5	3.8	7.0	13.9
Florida	2.4	3.3	3.2	3.6	5.2	3.1	7.0	22.9
North Carolina	3.1	3.9	3.5	2.9	5.0	3.3	6.9	16.3
West Virginia	3.2	4.7	2.1	3.1	8.6	3.3	6.8	10.1
Virginia	3.4	3.2	3.2	1.1	5.6	2.7	6.1	13.8
Georgia	2.7	2.6	3.5	3.5	3.5	3.1	5.0	12.8
Maryland	2.3	3.0	2.3	1.5	1.2	2.3	4.2	7.3
Delaware	3.2	3.1	3.2	-1.8	2.1	1.9	3.9	6.4
District of Columbia	2.9	2.0	2.1	-1.1	4.1	1.5	3.6	6.2
<b>Middle Atlantic</b>	2.7	2.6	3.4	1.4	1.1	2.5	5.0	7.8
Pennsylvania	2.5	4.1	3.2	-0.5	3.3	2.3	5.3	6.4
New York	3.1	1.8	3.8	2.4	-0.4	2.8	5.0	7.6
New Jersey	2.1	3.0	2.4	0.8	2.7	2.1	4.5	9.8
<b>East South Central</b>	3.2	4.6	3.2	0.5	3.1	2.9	5.0	13.0
Alabama	3.8	6.0	3.4	-0.1	4.8	3.3	6.1	12.9
Mississippi	4.2	5.1	2.5	0.0	3.7	2.9	5.5	9.5
Kentucky	2.4	4.0	3.5	1.6	0.7	2.9	4.7	8.3
Tennessee	3.0	4.1	3.0	0.3	3.3	2.6	4.3	16.9
<b>East North Central</b>	1.9	2.8	3.4	0.2	2.6	2.1	4.3	7.6
Indiana	2.0	3.9	2.8	4.9	3.7	3.4	5.8	13.3
Ohio	2.6	2.5	3.4	0.0	3.3	2.1	5.2	7.7
Wisconsin	0.7	4.4	4.2	-1.1	4.9	2.0	4.9	6.2
Michigan	2.1	2.9	4.2	1.2	0.5	2.6	4.7	8.4
Illinois	1.8	2.0	2.8	-1.8	1.8	1.2	2.6	5.1
<b>New England</b>	1.9	2.9	2.2	3.6	3.3	2.6	4.3	10.4
New Hampshire	2.8	4.5	2.1	4.3	3.0	3.4	6.0	15.5
Maine	2.2	3.6	1.7	2.8	3.5	2.6	5.9	14.4
Rhode Island	1.9	3.6	2.5	4.9	-1.0	3.2	5.8	8.5
Connecticut	1.8	3.0	2.8	-0.3	5.8	1.8	4.6	6.5
Massachusetts	1.9	2.3	1.9	5.6	2.5	2.9	3.6	11.3
Vermont	0.6	4.2	3.3	-1.5	7.2	1.6	3.5	8.2
<b>West North Central</b>	2.3	1.4	3.0	-4.3	2.8	0.6	3.9	8.4
Missouri	2.8	3.8	3.9	-0.5	2.9	2.5	5.4	10.8
South Dakota	0.0	-0.8	2.3	-3.9	2.2	-0.6	5.1	7.0
Kansas	1.6	1.4	5.6	-6.0	1.7	0.6	4.9	9.6
Nebraska	2.0	-1.4	5.3	-4.6	1.5	0.2	4.8	12.3
North Dakota	2.1	-2.3	0.1	-8.8	2.9	-2.3	4.4	1.5
Minnesota	2.9	2.0	1.3	-2.8	2.7	0.8	3.0	6.8
Iowa	1.7	0.0	1.6	-10.4	4.6	-1.9	1.0	6.4

Source: Bureau of Economic Analysis

# Financial Accounts

Economists are concerned with the level of assets and liabilities, at a given point in time, along with associated activities like lending, borrowing, saving, and investing. Data on financing and investing activities provide insight into current economic conditions and future prospects. This section provides a high-level overview of the US **financial accounts**, including liabilities, sectoral balances, wealth, and investment dynamics.

## Liabilities

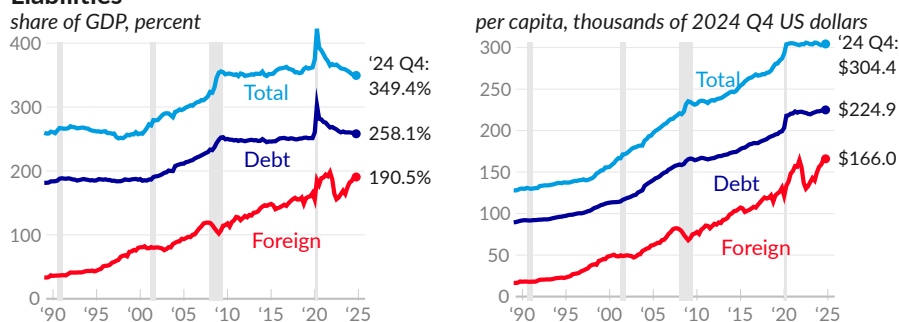
The Federal Reserve US Financial Accounts **cover liabilities**, both in levels and transactions. Using these accounts, we can summarize US financial obligations to others in a few different ways.

The first and most-common approach to analyzing US liabilities looks at **debt**, encompassing loans and debt securities like bonds. This approach aggregates the debt across all nonfinancial sectors—households, businesses, and government. As of the fourth quarter of 2024, the total debt for the sectors stands at \$76.7 trillion, which is 258.1 percent of GDP, or \$224,909 per capita.

The second approach considers **total liabilities**, which extend beyond debt to encompass all financial commitments, such as accounts payable, tax obligations, pensions, intercompany debts, and various other liabilities. The aggregate liabilities for nonfinancial sectors reach \$103.9 trillion in 2024 Q4, or 349.4 percent of GDP.

The last approach looks at **foreign financial claims** on the US. From a net US wealth perspective, domestic liabilities to domestic creditors net out. It is therefore of interest to look what is owed to foreign creditors. Foreign financial claims on the US total \$56.6 trillion in 2024 Q4, translating to 190.5 percent of GDP, or \$165,976 per capita.

### Liabilities



share of GDP, percent	2024 Q4	'24 Q3	'23 Q4	'19 Q4	2010	1989
Total Liabilities (—)	349.4	350.4	356.8	362.0	351.5	259.6
Debt (—)	258.1	259.7	260.3	251.4	248.9	182.1
Debt Securities	135.3	135.1	134.1	122.9	104.4	72.1
Loans	122.8	124.0	126.3	128.5	144.0	109.5
Foreign Financial Claims (—)	190.5	190.5	174.5	165.5	118.4	34.3

Source: Federal Reserve, Bureau of Economic Analysis

Note: Domestic figures are for nonfinancial sectors and foreign financial claims on the US do not include US claims on the rest of the world.

Liabilities vary **by sector** and vary over time within sectors. Households and nonprofits (see —) have \$20.2 trillion in debt in 2024 Q4, equivalent to 67.9 percent of GDP. During the collapse of the housing bubble, in 2010, household and nonprofit debt was equivalent to 92.1 percent of GDP.

In 2024 Q4, Private nonfinancial businesses (see —), corporate and noncorporate, have total liabilities of \$41.5 trillion and debt of \$21.6 trillion. In 2024 Q4, nonfinancial business debt is equivalent to 72.5 percent of GDP, slightly below the pre-COVID ratio of 73.3 percent. Nonfinancial corporations have \$28.9 trillion in total liabilities and \$13.7 trillion in debt.

Federal government debt (see —) is equivalent to 106.4 percent of GDP in the latest data and 86.8 percent in 2019 Q4. Federal government debt has increased substantially since the great recession. State and local government debt (see —) is equivalent to 11.3 percent of GDP in 2024 Q4 and 21.1 percent of GDP in 2010. Total liabilities for the sector, which include pensions, are 25.9 percent of GDP in the latest data and 44.2 percent in 2010.

### Total Liabilities by Sector

share of GDP, percent



### Debt by Sector

share of GDP, percent, seasonally adjusted



### Debt by Sector

share of GDP, percent

	2024 Q4	'24 Q3	'23 Q4	'19 Q4	2010	1989
Debt of Nonfinancial Sectors	258.1	259.7	260.3	251.4	248.9	182.1
Households & Nonprofits (—)	67.9	69.2	70.3	73.3	92.1	58.1
Home Mortgages	46.5	46.7	47.6	49.0	68.8	39.7
Consumer Credit	16.8	17.2	17.8	19.1	16.8	13.8
Nonfinancial Businesses (—)	72.5	73.6	74.3	77.0	69.6	63.7
Corporate	46.2	47.2	47.5	49.8	43.0	42.8
Debt Securities	28.6	29.0	29.1	31.9	26.6	20.7
Loans	17.6	18.1	18.3	17.9	16.3	22.2
Noncorporate	26.3	26.4	26.9	27.3	26.6	20.9
Commercial Mortgages	7.4	7.5	7.7	8.3	9.5	8.6
Government	117.7	116.9	115.7	101.1	87.3	60.2
State & Local (—)	11.3	11.5	11.5	14.3	21.1	16.3
Federal (—)	106.4	105.4	104.2	86.8	66.2	44.0

Source: Federal Reserve, Bureau of Economic Analysis



Higher rates of **real debt growth** may highlight economic risks. For example, the tech bubble that popped in 2001 shows up as an increase in corporate borrowing, and the housing bubble that popped in 2008 shows up as an increase in mortgage debt.

Since the fourth quarter of 2019, inflation-adjusted US debt has increased at an annualized rate of 3.1 percent, slightly below the long-term rate of 3.7 percent. Over this five-year period, growth is driven largely by an increase in federal government debt. Federal government debt contributed 2.5 percentage points to annualized growth, and nonfinancial business debt contributed 0.4 percentage point.

Over the year ending 2024 Q4, real debt increased 1.6 percent, far below the long-term average. Federal government borrowing (see ■) contributed 1.9 percentage points to the overall change, while the state and local government did not contribute (see ■). Households and nonprofits subtracted 0.2 percentage point (see ■), and nonfinancial businesses did not contribute (see ■).



### Real Debt Growth by Sector

	contribution to one-year real growth, percentage points					long-term, annualized		
	2024 Q4	'24 Q3	'24 Q2	'24 Q1	'23 Q4	5-year	10-year	30-year
Total Real Debt Growth	1.65	2.44	2.24	2.55	2.26	3.08	3.12	3.72
Household & Nonprofit	-0.25	0.10	0.04	0.04	-0.03	0.30	0.38	0.85
Home Mortgages	0.02	0.05	0.03	0.01	0.03	0.28	0.24	0.56
Consumer Credit	-0.21	-0.02	-0.07	-0.04	-0.01	0.01	0.12	0.23
Business	0.00	0.19	-0.06	-0.26	-0.21	0.37	0.84	1.02
Corporate Business	-0.02	0.19	-0.00	-0.18	-0.17	0.19	0.52	0.60
Debt Securities	0.08	0.17	0.02	-0.04	0.00	0.03	0.26	0.39
Loans	-0.11	0.02	-0.03	-0.14	-0.17	0.16	0.26	0.22
Noncorporate Business	0.02	0.00	-0.05	-0.08	-0.04	0.18	0.32	0.41
Commercial Mortgages	-0.04	-0.04	-0.03	-0.01	0.00	-0.00	0.04	0.10
State & Local Government	0.02	0.03	-0.03	-0.07	-0.09	-0.09	-0.09	0.09
Federal Government	1.88	2.12	2.28	2.84	2.59	2.50	2.00	1.76

Source: Federal Reserve, Bureau of Economic Analysis



## Sectoral Balances

The **sectoral financial balances** provide a high-level summary of US financial activities, by dividing the world into three sectors: the US private sector (see ■), the US government (see ■), and the rest of the world (see ■). This framework analyzes the net lending and borrowing among these sectors. Since one sector's borrowing is another's lending, the sum of all sectors' balances is always zero.

A sector runs a surplus for a given accounting period when its income exceeds its expenditures, allowing it to lend out the resulting savings. Conversely, a sector that spends more than its income must borrow to cover the shortfall. For instance, when the public sector incurs a deficit, it becomes a net borrower, effectively generating a surplus for other sectors by spending beyond its tax revenues.

### Sectoral Financial Balance

net lending (+) or borrowing (-), NIPA basis, by sector, as share of GDP



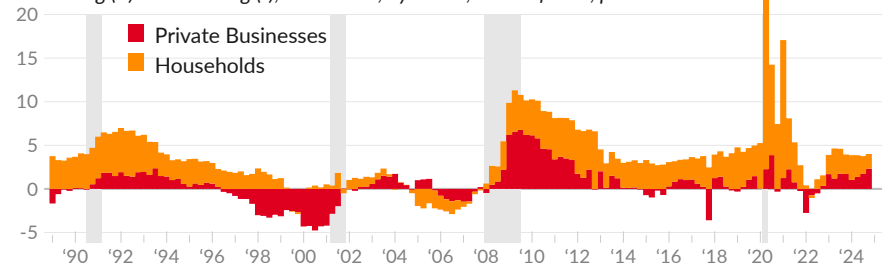
Source: Bureau of Economic Analysis

In 2024 Q4, the US private sector was a net lender (running a surplus) of the equivalent of 4.0 percent of GDP, slightly below the 4.6 percent surplus in 2019. The rest of the world was a net lender to the US to the equivalent of 3.6 percent of GDP in 2024 Q4, compared to 2.1 percent in 2019. Balancing these transactions, the government (federal, state, and local combined) was a net borrower (running a deficit) of the equivalent of 7.6 percent of GDP in 2024 Q4, compared to 6.7 percent in 2019.

Breaking out the two main categories in the private sector, households were net lenders (ran a surplus) of the equivalent of 1.7 percent of GDP in 2024 Q4 (see ■), while private businesses—corporate and noncorporate—were net lenders of the equivalent of 2.3 percent of GDP (see ■). In 2019, households were net lenders of 4.0 percent, and private businesses were net lenders of 0.6 percent.

### Domestic Private Sector Financial Balance

net lending (+) or borrowing (-), NIPA basis, by sector, share of GDP, percent



Source: Bureau of Economic Analysis

## Wealth

**Wealth or net worth** is the sum of domestic tangible assets, such as land (excluding public land), structures, and equipment, minus foreign financial claims on these assets, plus domestic claims on foreign assets. US wealth totals \$157.3 trillion in 2024 Q4, equivalent to \$461,200 per capita, or 5.29 years of GDP (529.3 percent of GDP.)

The ratio of US wealth to GDP has increased 146.3 percentage points since 1989, driven largely by increases in the market value of corporate equities and residential real estate. The market value of corporate equities was equivalent to 272.1 percent of GDP in 2024 Q4, compared to 170.5 percent in 1999–2000, during the tech bubble, and to 60.1 percent in 1989 (see ■).

The market value of domestic residential real estate was equivalent to 175.4 percent of GDP in 2024 Q4, compared to 185.0 percent in 2005–2007, during the housing bubble, and 134.2 percent in 1989 (see ■).

On a net basis, all other US wealth is equivalent to 81.8 percent of GDP in 2024 Q4 and 188.7 percent in 1989 (see ■). The other category includes tangible assets of noncorporate businesses and governments, and domestic financial claims on foreign assets. The category also subtracts foreign financial claims on US assets, for example foreign holdings of US corporate equities and Treasury bonds.

### Wealth to GDP Ratio

total US wealth divided by GDP, percent



Source: Federal Reserve



The tangible assets of each major domestic sector are shown below, along with the summary of financial claims between the rest of the world and the US.

### Derivation of US Wealth

share of GDP, percentage points

	2024 Q4	'24 Q3	'24 Q2	'23 Q4	2019	2005 '07	1989
US Net Wealth	529.3	533.5	530.0	510.8	473.2	478.6	383.0
Households & Nonprofits	206.2	209.6	212.6	204.5	182.3	217.8	169.2
Noncorporate Businesses	64.3	64.8	65.1	67.1	67.7	73.1	71.1
Domestic Corporations	269.9	262.5	252.9	231.7	199.6	130.3	74.4
Federal Government	16.0	16.0	16.1	16.2	16.7	18.3	25.7
State & Local Government	56.2	56.5	56.6	57.4	55.3	48.7	41.9
Net Claims on ROW	-83.2	-76.0	-73.3	-66.1	-48.3	-9.6	0.8
US Claims on ROW	107.3	114.5	111.1	108.4	112.4	95.9	35.1
Less: ROW Claims on US	190.5	190.5	184.5	174.5	160.7	105.6	34.3

Source: Federal Reserve, Bureau of Economic Analysis



## Investment

**Investment** is the process through which tangible (nonfinancial) domestic fixed assets are created and improved. In the national accounts, investment assets have a useful life of more than one year and do not include consumer durable goods such as cars, furniture, or appliances. As such, investment is considered an exchange of assets, and distinguished from consumer spending.

In the first quarter of 2025, annualized US **gross fixed investment**, both public and private, totals \$6.5 trillion, or 21.7 percent of GDP (see —). Gross fixed investment is equivalent to 21.6 percent of GDP one year prior, in 2024 Q1, and averages 21.3 percent of GDP in 2019.

In 2025 Q1, private nonresidential (business) fixed investment comprises 64 percent of the total and translates to 13.9 percent of GDP (see ■). Private residential makes up 19 percent of the total and 4.1 percent of GDP (see ■). Public investment is 17 percent of the total and 3.7 percent of GDP (see ■).

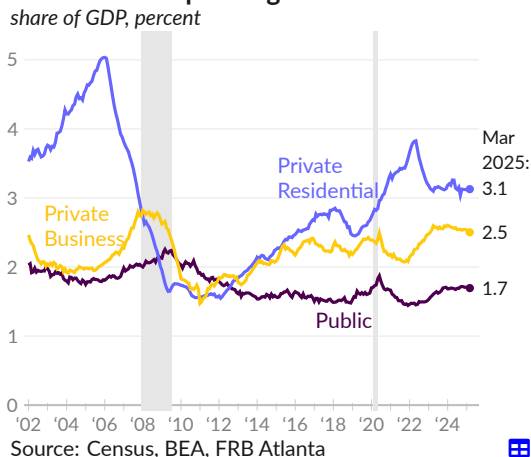
### Gross Domestic Fixed Investment



### Construction Spending

Traditionally, **construction spending** makes up a large portion of fixed investment, and a substantial portion of GDP. Each month, the Census Bureau [report](#) the dollar value of construction work done in the US. In March 2025, the annualized value of construction put-in-place is \$2.2 trillion, equivalent to 7.3 percent of GDP.

### Construction Spending



By sector, private residential construction is 3.1 percent of GDP (see —) in March 2025, private nonresidential construction is 2.5 percent (see —), and government construction is 1.7 percent (see —).

Over the past year, construction spending contributed 0.21 percentage point to nominal GDP growth. Private residential construction contributed 0.09 percentage point, private nonresidential contributed 0.04 point, and public construction added 0.08 point.



## Investment Contribution to Growth

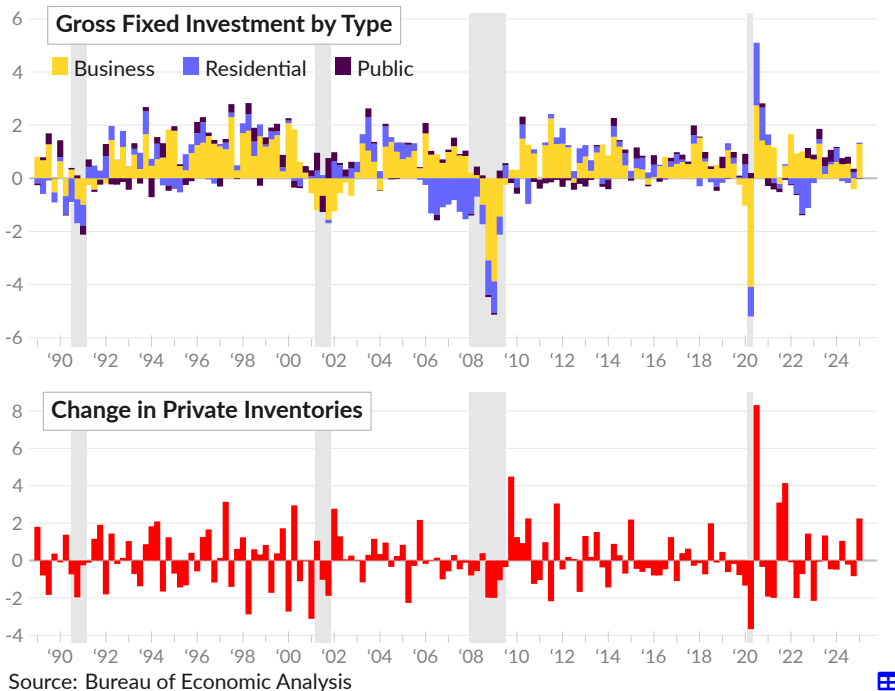
As gross investment usually represents a fifth of GDP or more, investment tends to also represent a sizable **contribution to GDP growth**. During periods of particularly strong investment, the category explains nearly half of overall economic growth. For example, from 1996 to 1999, gross domestic fixed investment added an average of 1.75 percentage points to annual real GDP growth.

In the first quarter of 2025, gross domestic fixed investment contributed 1.32 percentage points to annualized real GDP growth, following a subtraction of 0.06 point in 2024 Q4. Over the past year, gross fixed investment contributed 1.12 percentage points to real GDP growth.

In 2025 Q1, by type of gross fixed investment, private nonresidential contributed 1.29 percentage points to annualized real GDP growth (see ■), private residential contributed 0.05 percentage point (see ■), and public subtracted 0.02 percentage point (see ■). Over the past year, nonresidential or business gross fixed investment contributed 0.76 percentage point, residential contributed 0.13 point, and public contributed 0.24 point.

## Domestic Investment Contribution to Growth

percentage point contribution to real GDP growth



Source: Bureau of Economic Analysis

Gross domestic investment includes fixed investment, discussed above, and also the **change in private inventories**. Inventories are goods that were produced but not sold. While periods with low inventories balance out periods of overstock in the long-term, changes in private inventories can swing GDP growth in a given quarter.

In 2025 Q1, changes in private inventories contributed 2.25 percentage points to annualized real GDP growth (see ■), following a subtraction of 0.84 percentage point in 2024 Q4. Over the past year, changes in private inventories contributed 0.56 percentage point from real GDP growth.

Each of these categories of investment is discussed further in the chartbook section for the relevant sector. The next subsection examines net fixed investment, which adjusts for the depreciation of assets over time, in order to capture new or expanded investment.

## Net Fixed Investment

Gross investment includes new fixed investment as well as depreciation, the wearing down of existing assets. Gross investment less depreciation is referred to as **net investment**, and represents new or expanded investment. The net investment figures below are derived from the US [financial accounts](#).

In 2024 Q4, gross fixed investment was \$6.4 trillion, depreciation was \$4.9 trillion, and net fixed investment was \$1.5 trillion, equivalent to 4.9 percent of GDP (see —). In 2019, net fixed investment was 5.2 percent of GDP.

The financial accounts also tabulate net spending on consumer durable goods, such as autos, furniture, and appliances. Net spending on consumer durables was \$394 billion in 2024 Q4, or 1.3 percent of GDP (see —). Net consumer durable goods spending was 1.1 percent of GDP in 2019.

### Net Fixed Investment

share of GDP, percent



Levels of net fixed investment vary by sector and over time. In 2024 Q4, household sector net fixed investment, excluding consumer durables, was equivalent to 1.3 percent of GDP, compared to 1.5 percent in 2019 (see ■). From 2003 to 2006, during the housing bubble, household net fixed investment averaged 3.5 percent of GDP. Business sector net fixed investment is equivalent to 2.7 percent of GDP in 2024 Q4, and 2.9 percent in 2019 (see ■). Government net fixed investment is equivalent to 0.9 percent of GDP in 2024 Q4 and 0.8 percent in 2019 (see ■).

### Net Fixed Investment by Sector or Type

share GDP, percent



	2024 Q4	'24 Q3	'24 Q2	'23 Q4	2019	2003 -'06	1999 -'01
— Net Fixed Investment	4.90	5.12	5.10	4.99	5.19	7.33	8.03
■ Business	2.67	2.94	2.92	2.89	2.88	2.55	4.27
Nonfin. Noncorp. Business	0.40	0.44	0.46	0.44	0.46	0.58	0.61
Nonfin. Corporations	2.16	2.37	2.34	2.35	2.15	1.72	3.15
■ Government	0.93	0.93	0.89	0.87	0.82	1.31	1.10
State & Local Gov.	0.69	0.69	0.68	0.64	0.66	1.08	1.13
Federal Gov.	0.24	0.24	0.21	0.23	0.15	0.23	-0.03
■ Household & Nonprofit	1.30	1.25	1.30	1.23	1.49	3.46	2.67
— / ■ Consumer Durables	1.33	1.19	1.15	1.09	1.09	1.97	2.27

Source: Federal Reserve, Bureau of Economic Analysis

# Households

This section covers the household sector of the economy. Households are the source of labor for production and the source of saving for investment. Households are also the primary consumers in the economy. The core topics in the households section include demographics, personal and household income and outlays, consumer sentiment, residential investment, household balance sheets, home ownership, housing, and poverty.

## Demographics

Demographics provide a foundation for examining the household sector. Demographics provide insight on the structure and characteristics of the population. The demographics subsection covers population, population growth, household formation and headship, age, life expectancy, and education.

### Population

The Census Bureau provides [estimates](#) and [projections](#) of the **US population**. Population levels and growth rates affect the economy and are critical pieces of information in determining and evaluating economic policies and outcomes. Population projections are based on assumptions, for example about the future level of net migration to the US, but are useful for thinking about future US demographics.

The US resident population is 341.6 million in April 2025, from the latest population estimates, released in December 2024 (see [—](#)). The 2023-based projections of the future US resident population show a 2030 population of 345.1 million people (see [—●—](#)). The resident population under age 65 was estimated to be 272.7 million in 2023 (see [—●—](#)) and is projected to be 262.1 million in 2030 (see [—▲—](#)).

### Population Estimates and Projections

resident population, in millions of people



Source: Census Bureau

### Population Estimates and Projections

resident population, in millions of people

	Apr 2025	2023	2019	2010	2000	1990	Projected 2030
Total Resident Population	341.6	336.8	328.2	309.3	282.2	249.6	345.1
Under Age 65	-	272.7	274.2	268.8	247.1	217.7	262.1
Age 65 Plus	-	64.1	54.1	40.5	35.1	31.9	83.0

Source: Census Bureau

## Population Growth

Population growth comes from two sources, natural increases (births minus deaths) and net migration. In the latest estimate, the US added 3,304,800 people over the year ending July 2024, a population growth rate of one percent. There were a total of 3.61 million births (see —), and 3.09 million deaths (see —), resulting in a natural increase of 518,600 people (see ). In the same period, net migration from abroad increased the resident population by 2,786,100 people (see ■ ). For comparison, in 1989, there were 3.91 million births, 2.17 million deaths, and 578,200 net migrants to the US.

### Components of US Population Growth

in millions of people



### Related Measures

There are multiple measures of population, based on different definitions. As of April 2025, the **resident** population is 341.6 million, while the more-comprehensive resident population **including armed forces overseas** is 341.8 million, and the more-narrow **civilian noninstitutionalized** population, which is used in labor statistics, is 336.9 million. The Bureau of Economic Analysis (BEA) use midyear resident population estimates from the Census Bureau for per capita measures. Chartbook measures that use both population and BEA data use the resident population, while chartbook measures based on the Current Population Survey use the civilian noninstitutionalized population.

The Census Bureau further divides the population into those living in households and those living in group quarters. As of December 2025, the **household** population is 334.5 million, or 97.6 percent of the total resident population. The **group quarters** population is **measured** in depth as part of the 2020 Census. The 2020 group quarters population is 8.2 million, of which 3.8 million are institutionalized. Of these, two million are in prisons and jails, and 1.6 million are in nursing and skilled-care facilities. An additional 2.8 million people live in dormitories or student housing, 328,000 live in barracks, and 1.4 million live in other noninstitutional facilities such as shelters and group homes.

Lastly, an important related concept, **households**, are **measured** as occupied housing units. The number of households varies over time, separately from the population, as people make changes in their living arrangements. Over the year ending 2025 Q1, there were an average of 132.0 million households, compared to 94.2 million in 1990.

## Household Formation

Households are measured as **occupied housing units**, whether occupied by the owner or rented. Over the year ending 2025 Q1, there were an average of 132.0 million total occupied housing units in the US, of which 45.6 million (34.5 percent) were rented, and 86.5 million (65.5 percent) were owner-occupied. Since 1989, the US has experienced the boom and bust of a major housing bubble. By 2016, the end result of the bubble bursting was a shortage of housing, as housing units per capita fell from 1995 to 2016.

### Housing by Type

one-year moving averages  
millions of units



Source: Census Bureau

change since 1989, units per capita, percentage points

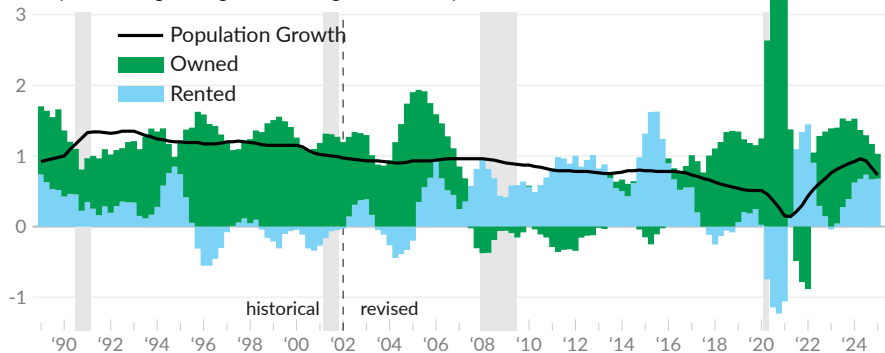


**Household formation** measures the change in occupied housing units. During the housing bubble, housing construction exceeded population growth and the homeownership rate increased. Following the collapse of the housing bubble, household formation was below population growth and homeownership decreased as foreclosures converted homeowners into renters.

From 2019 Q4 to 2025 Q1, the average annual **household formation rate** was 1.4 percent, while annual population growth averaged 0.6 percent. Changes in the number of owner-occupied households contributed 1.1 percentage points on an average basis (see ■), and changes in rented households contributed 0.3 percentage point (see ■). Over the year ending 2025 Q1, the household formation rate averaged 1.0 percent, of which owner-occupied households contributed 0.4 percentage point, and rented households contributed 0.7 percentage point.

### Contributions to Household Formation

one-year moving average of annual growth rates, percent



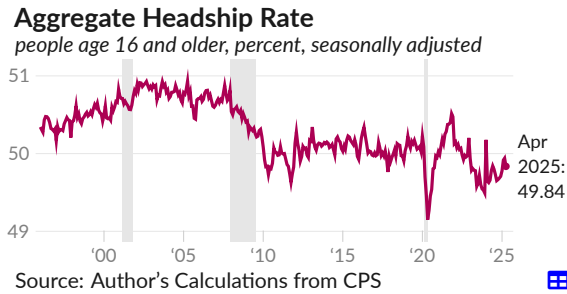
Source: Census Bureau, Housing Vacancies and Homeownership



## Headship Rate

Individual decisions about starting a household or living with family are influenced by economic conditions. The ratio of households to people age 16 and older is referred to as the [aggregate headship](#) rate.

The headship rate fell following the collapse of the housing bubble and during the COVID-19 pandemic, as more people moved in with family. The headship rate reached a low of 49.15 percent during May 2020, and is currently 49.84 percent, as of April 2025 (see —).



[Living with Family, forthcoming]

## Age

In discussions on demographics, **aging** is often described as a serious headwind to economic growth in major advanced economies. The increased share of many countries' population that is of retirement age means a smaller share are working and borrowing and a larger share are receiving pension benefits and lending to the financial system. These trends can be overcome by a workforce that is more efficiently able to provide goods and services. In part due to a shorter life-expectancy in the US, this problem is more pronounced in Japan and western Europe, but is still an important issue for the US.

The **median age** is the midpoint for the age of a group; half of the group is older and half is younger. Tracking this point over time summarizes the age composition of the group. As a population ages, the median age will increase.

The median age of the overall civilian noninstitutionalized population, calculated from the Current Population Survey (CPS), is 38.3, as of April 2025, compared to 31.3 in January 1990 (see —). The median worker is 40.8 in April 2025, and 35.5 in January 1990 (see —).



Economic indicators are sometimes based on specific **age groups**. As examples, labor statistics often exclude those under age 16, the retirement-age population is above a certain age, such as 64, and a popular measure of labor market slack is the age 25 to 54 employment rate. It is therefore useful to know what share of the overall population is in each major age group, and how the current age distribution compares with the past.

## Age Groups

share of population, percent



The noninstitutionalized civilian population used in most labor statistics totals 336.9 million in April 2025. Of this, 18.9 percent are under the working age of 16, equivalent to 63.7 million people. In 1989, the under-16 population was 23.4 percent of the total. The juvenile population, those under 18, is 73.0 million, equivalent to 21.7 percent of the population in April 2025, and compared to 26.3 percent in 1989.

Traditionally, the prime working age is between 25 and 54. In April 2025, 131.0 million people, 38.9 percent of the population, are age 25 to 54. In 1989, 42.3 percent of the population is age 25 to 54. The age 55 to 64 group is 12.2 percent of the population in the latest data and 8.9 percent in 1989. Those above the age of 65 comprise 18.2 percent in April 2025 and 11.9 percent in 1989.

Mapping American Community Survey data to commuter zones gives insight on the **age composition of local areas**. In 2023, among commuter zones with a population of at least 100,000, the commuter zone (listed by largest city) with the highest share of its population under 18 is Provo, UT (31.0 percent), followed by Laredo, TX (30.7 percent), and Brownsville, TX (29.6 percent). The commuter zones with lowest share of the local population under 18 were Port Angeles, WA (14.3 percent), Sarasota, FL (14.9 percent), and Pittsfield, MA (16.1 percent).

The age 65 and older population is disproportionately concentrated in Florida. The commuter zone with the highest share of its population over 64 is Port Angeles, WA (35.4 percent), followed by Sarasota, FL (34.8 percent), and Ocala, FL (31.0 percent). The commuter zones with lowest local over-64 population share were Provo, UT (8.4 percent), Laredo, TX (10.9 percent), and Odessa, TX (11.0 percent).

### Age Group Share of Commuter Zone Population, 2023



Source: American Community Survey, Dorn



### Life expectancy

**Life expectancy** at birth summarizes the health and mortality of a population. The measure indicates the number of years a newborn is expected to live if mortality rates do not change. Life expectancy estimates are **produced** by the National Center for Health Statistics.

#### Life Expectancy at Birth



Source: NCHS



In 2023, US life expectancy at birth is 78.4 years (see —), a decrease of 0.5 year since 2014, but an increase of 3.3 years since 1989. Life expectancy for men is 75.8 years in 2023, compared to 76.5 years in 2014 and 71.7 years in 1989 (see —). Women born in 2023 are expected to live 81.1 years, based on current mortality rates, compared to estimates of 81.3 years for 2014 and 78.5 years for 1989 (see —).

Falling life expectancy from 2014 to 2018 is generally associated with increased overdose deaths and the opioid epidemic. Life expectancy fell further during the COVID-19 pandemic, **according** to early estimates.



## Education

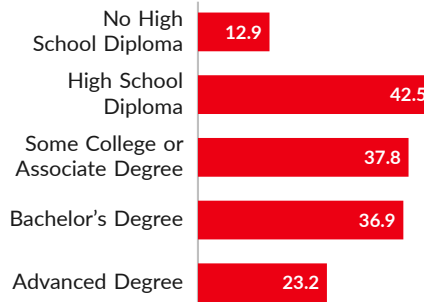
Education is central in many discussions of the future of the US economy. In recent decades, there has been a significant rise in both college tuition fees and enrollment rates. Households may be spending more on education as a response to changing job opportunities from globalization and other policy decisions. Consequently, the population is now more educated but also bears greater student debt burdens.

Over the year ending April 2025, 60.1 million people over the age of 25, or 39.2 percent of the total, have at least a bachelor's degree, with 23.2 million of those, or 15.1 percent of the total, holding an advanced degree such as a master's degree, medical or law degree, or PhD.

An additional 37.8 million people have some college coursework but no degree or have an associate degree. A total of 42.5 million have a high school diploma but no college, while 12.9 million have no high school diploma.

### Highest Level of Education

millions of people, age 25+, April 2025  
12-month moving average



Source: Author's Calculations from CPS

The share of the population with a bachelor's degree or advanced degree increased by 13.3 percentage points since 2000. The increase is even more pronounced among those who are employed; 45.1 percent have a college degree or advanced degree during the year ending April 2025, an increase of 14.1 percentage points since 2000.

Increased education may be connected to a changing labor market and lack of worker bargaining power. Behind the increase in education is a large increase in student debt. The burden of this debt is severe for many, as the more-educated workforce is not necessarily receiving the historical wage premium from education.

### Education Distribution

share of age 25+ population, percent  
12-month moving average

■ April 2025 ■ 2000



Source: Author's Calculations from CPS

## Income, Spending, and Saving

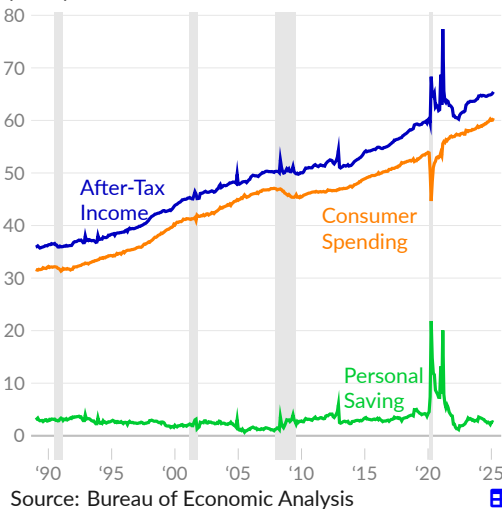
The next subsections cover household and personal income, consumer spending, and personal saving. This subsection offers an overview, with mean and median per capita measures, adjusted for inflation to March 2025 dollars.

In the national accounts, disposable personal income, or **after-tax income**, totals \$22.4 trillion, on an annualized basis, in March 2025, equivalent to \$65,437 per person (see —). Personal consumption expenditures, or **consumer spending**, totals \$20.7 trillion in March 2025, or \$60,438 per person (see —). **Personal saving**, calculated as after-tax income minus consumer spending and other outlays such as interest payments, totals \$0.87 trillion, or \$2,553 per person (see —).

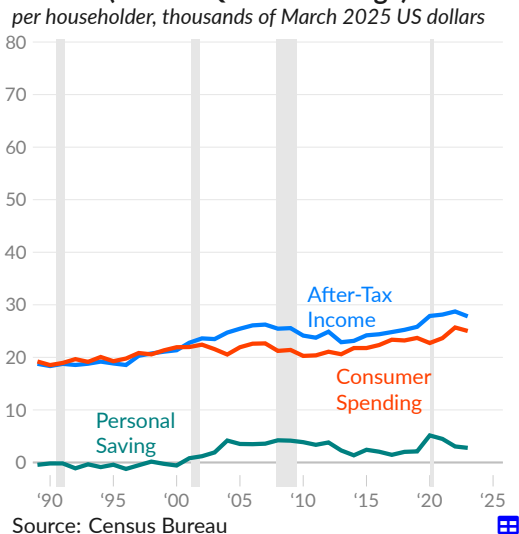
The Consumer Expenditure Surveys [report](#) spending by income level, including for the median household. The median is not affected by the activities of the highest income households, which skew the average (mean). Personal saving is calculated as after-tax income minus spending, excluding spending on pensions.

In 2023, inflation-adjusted after-tax income is \$27,803 per person for the middle fifth of households (see —). Spending for these households is \$25,023 per person (see —), and saving is \$2,780 per person (see —).

### Average Income, Spending, and Saving



### Median (Middle Quintile Average)



### Average Income, Spending, and Saving

per capita, seasonally-adjusted annualized rate, March 2025 US dollars

	Mar '25	Feb '25	Jan '25	Dec '24	Mar '24	Mar '20
Personal Income	\$74,731	74,387	74,194	74,048	73,772	67,578
Personal Current Taxes	9,294	9,251	9,259	9,198	8,990	8,052
— After-Tax Income	65,437	65,136	64,934	64,850	64,781	59,526
Personal Outlays	62,884	62,483	62,371	62,713	61,392	52,137
— Consumer Spending	60,438	60,042	60,003	60,253	58,937	50,219
Interest Payments	1,642	1,637	1,640	1,642	1,636	1,188
— Personal Saving	2,553	2,654	2,563	2,138	3,389	7,390

Source: Bureau of Economic Analysis

## Distribution by Income

Income varies massively by household. While some spending is non-discretionary, spending increases with income. The bottom 40 percent of households, by total money income, have expenses exceeding after-tax income. This includes retirees who are dissaving and low-income families taking on debt to cover expenses. Meanwhile, the top ten percent of households save nearly half of their income.

In 2023, after-tax household income (see ■) ranges from \$16,200 for the bottom 20 percent to \$271,600 for the top 10 percent. Spending, excluding pensions, (see ■) ranges from \$33,300 for the bottom 20 percent by income, to \$148,600 for the top 10 percent income group.

### Household Income and Spending, by Income Percentile

thousands of 2023 dollars



Income is after taxes; spending does not include spending on pensions

Source: Census Consumer Expenditure Surveys



## Distribution by Age

Income and spending vary by age and tend to peak between ages 45 and 54. Saving, the difference between income and spending, also varies by age and generally peaks during ages 45 to 54. In 2019, the oldest and youngest age groups in the data have income near or below their expenses, resulting in low or negative saving rates. In contrast, during the pandemic in 2020, income was above average and spending was below average, and saving rates were positive and far above average.

In 2023, after-tax household income (see ■) ranges from \$50,000 for the oldest age group to \$115,700 for the 45 to 54 age group. Spending, excluding pensions, (see ■) ranges from \$44,500 for the youngest age group to \$83,100 for the 45 to 54 age group.

### Household Income and Spending, by Age of Reference Person

thousands of 2023 dollars



Income is after taxes; spending does not include spending on pensions

Source: Census Consumer Expenditure Surveys



## Personal Income

**Personal income**, or pre-tax income, can be **grouped** into three major categories: labor income, capital income, and net government benefits. Labor income (see ■) encompasses wages and salaries and other job benefits, and is measured as compensation of employees in the national accounts. Capital income (see ■) sums proprietor, rental, dividend, and interest income. Net government social benefits (see ■) are measured as government social benefits less contributions to social insurance.

### Personal Income

real per capita pre-tax income, thousands of March 2025 US dollars



Source: Bureau of Economic Analysis, Author

In March 2025, annualized personal income is \$74,731 per capita (see ○). Labor income totals \$45,308 per person, capital and proprietor income is \$21,119 per person, and net government benefits total \$8,304 per person.

### Personal Income by Source

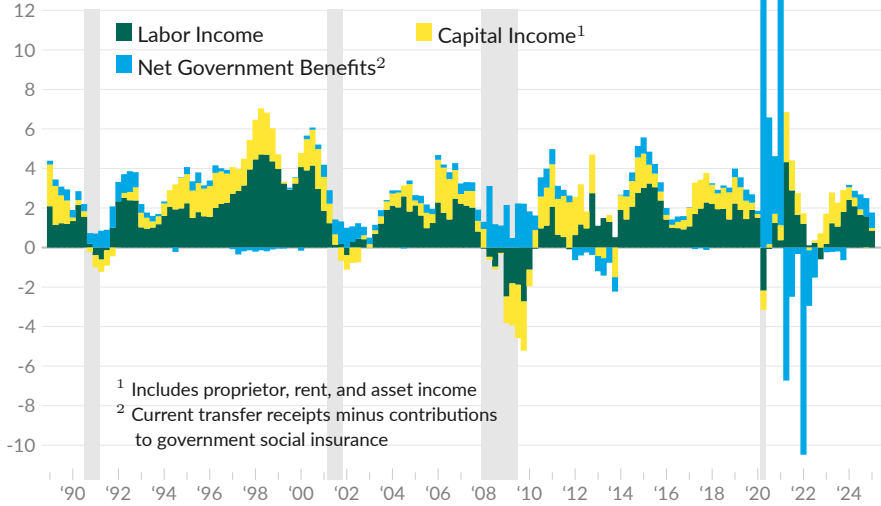
per capita, annualized, March 2025 US dollars

	Mar '25	Feb '25	Jan '25	Mar '24	Mar '20
Personal Income (Pre-Tax Income)	\$74,731	74,387	74,194	73,772	67,578
■ Labor	45,308	45,069	45,088	45,056	42,294
Wages & Salaries	37,350	37,154	37,177	37,257	34,543
Supplements to Wages & Salaries	7,958	7,914	7,911	7,800	7,751
■ Capital	21,119	20,949	20,966	20,919	18,662
Proprietors' Income	6,107	6,001	6,010	5,955	5,364
Rental Income	3,221	3,200	3,189	3,195	2,675
Personal Interest Income	5,867	5,845	5,853	5,830	5,594
Personal Dividend Income	5,924	5,902	5,915	5,940	5,029
■ Net Government Benefits	8,304	8,370	8,140	7,796	6,622
Government Social Benefits	13,610	13,588	13,429	13,114	11,748
Social Security	4,437	4,433	4,424	4,319	3,899
Medicare	3,396	3,367	3,352	3,178	2,917
Medicaid	2,836	2,834	2,830	2,768	2,230
Unemployment Insurance	105	105	105	106	243
Veterans' Benefits	680	676	675	643	514
Other	2,157	2,174	2,043	2,101	1,945
Less: Social Insurance Contributions	-5,720	-5,694	-5,701	-5,704	-5,279

Source: Bureau of Economic Analysis

## Personal Income

percentage point contribution to one-year real pre-tax income growth



Aggregate real personal income increased 1.77 percent over the year ending 2025 Q1. Labor income contributed 0.84 percentage point to overall growth, capital income contributed 0.15 percentage point, and net government benefits contributed 0.78 percentage point.

## Personal Income by Source

percentage point contribution to one-year real pre-tax income growth

moving averages

	2025 Q1	'24 Q4	'24 Q3	'24 Q2	'24 Q1	1-year	10- year	30- year
Personal Income (Pre-Tax Income)	1.77	2.47	2.69	2.87	3.18	2.45	2.71	2.72
■ Labor	0.84	1.58	1.65	2.09	2.41	1.54	1.46	1.52
Wages & Salaries	0.57	1.27	1.29	1.68	1.96	1.20	1.29	1.28
Supplements to Wages & Salaries	0.27	0.31	0.36	0.40	0.45	0.34	0.17	0.25
■ Capital	0.15	-0.03	0.28	0.44	0.64	0.21	0.77	0.79
Proprietors' Income	0.16	0.07	0.06	0.07	-0.06	0.09	0.12	0.25
Rental Income	0.08	0.14	0.16	0.18	0.24	0.14	0.13	0.16
Personal Interest Income	-0.01	-0.16	0.06	0.20	0.33	0.02	0.16	0.09
Personal Dividend Income	-0.08	-0.08	0.00	-0.01	0.13	-0.04	0.35	0.29
■ Net Government Benefits	0.78	0.92	0.76	0.34	0.12	0.70	0.48	0.41
Government Social Benefits	0.79	0.95	0.81	0.47	0.35	0.76	0.64	0.58
Social Security	0.20	0.25	0.25	0.22	0.22	0.23	0.18	0.16
Medicare	0.30	0.24	0.20	0.17	0.18	0.23	0.15	0.15
Medicaid	0.16	0.28	0.19	-0.04	0.02	0.15	0.13	0.13
Unemployment Insurance	-0.00	-0.00	0.00	0.01	0.02	0.00	0.03	0.01
Veterans' Benefits	0.06	0.06	0.07	0.07	0.09	0.06	0.05	0.03
Other	0.08	0.13	0.11	0.05	-0.16	0.09	0.10	0.10
Less: Social Insurance Contributions	-0.07	-0.08	-0.09	-0.16	-0.25	-0.10	-0.19	-0.19

Source: Bureau of Economic Analysis

The Bureau of Economic Analysis [reports](#) an inflation-adjusted one-year change in after-tax income per person of 1.0 percent in March 2025, 0.7 percent in February 2025, and 2.1 percent in March 2024 (see [—](#)). Over the past year, the measure has averaged 1.4 percent. During the three years before the COVID-19 pandemic, per capita after-tax income grew at an average annual rate of 2.7 percent.

### After-Tax Income Growth

one-year growth, per capita real disposable personal income, percent



Source: Bureau of Economic Analysis

### Distribution of Personal Income

Labor income, which includes wages and salaries as well as self-employment income, is the vast majority of personal income. Over calendar year 2023, 51 percent of people have any labor income (see [■](#)). Only 44 percent of people have labor income above the single-person poverty threshold of \$13,590.

Total income, which includes after-tax labor income plus welfare and capital income, (see [■](#)) reaches 71 percent of people in 2023. People who did not receive any income by the total income measure typically live with people who receive income.

In 2023, 5.8 percent of people have total income of more than \$150,000. Note that the chart cuts off income above \$150,000.

### Distribution of Personal Income, 2023

by percentile of income, thousands of US dollars



Source: Author's Calculations from CPS ASEC

## Personal Income

number of recipients in thousands,  
income amounts in 2023 US dollars

	2023			2019		
	Total with Income	Median Income	Mean Income	Total with Income	Median Income	Mean Income
<b>Total</b>	241,800	\$42,220	\$63,510	235,292	\$43,013	\$64,716
Earnings	173,100	50,310	68,130	169,802	49,661	69,063
Social Security	57,020	18,880	19,910	54,985	18,559	19,722
Supplemental Security Income	5,870	10,350	9,956	5,715	10,074	10,118
Public Assistance	1,685	2,900	4,561	1,383	3,241	4,847
Veterans' Benefits	5,068	17,110	21,920	4,406	16,444	21,082
Survivor Benefits	3,174	11,100	20,690	3,197	11,638	20,492
Disability Benefits	2,879	11,420	16,130	2,729	10,588	16,591
Unemployment Compensation	3,325	4,150	5,921	3,345	4,457	6,304
Workers' Compensation	1,317	9,834	16,060	1,485	9,605	17,036
Property Income	156,000	1,764	7,699	146,025	2,032	7,435
Retirement Income	30,940	16,720	27,980	30,731	17,356	30,852
Pension Income	21,140	18,010	26,030	20,850	19,031	30,552
Alimony	177	13,660	45,930	216	15,907	22,091
Child Support	3,129	4,326	6,356	3,788	4,974	7,035
Educational Assistance	7,488	5,883	9,733	7,848	6,247	10,380
Outside Financial Assistance	3,004	5,050	9,529	2,587	4,809	10,761
Other	2,307	1,631	6,287	2,407	2,176	15,490

Source: Census Bureau, Bureau of Labor Statistics



## Contributions to Personal Income Growth

Annual data on personal income [describe](#) the number of people receiving various categories of income, and the average payment. As a result, it is possible to match changes in aggregate personal income from changes in payment amounts (see ■) and changes in how many people are receiving payments (see ■).

From 2019 to 2023, aggregate pre-tax personal income increased by a total of 0.85 percent, after adjusting for changes in prices. Compared to 2019, average amounts received are down across nearly all categories. Property, pension, and retirement income were hit by higher inflation and a weak stock market. Earnings did not keep up with inflation over this period, though more people are working.

### Sources of Personal Income Growth, 2019 to 2023

percentage point contribution to real aggregate growth



Source: Census Bureau, Bureau of Labor Statistics



## Household Income

Given the variance in personal income, with many people receiving no income at all, individuals often live together and combine their income and expenses. This subsection covers household income, the combined income of all people in a given housing unit.

As with personal income, household income is distributed very unevenly in the US. The Census Bureau and Bureau of Labor Statistics [report](#) historical household income data, adjusted for changes in prices. The mean or average household income is \$114,500 in 2023 (see —), compared to \$110,600 in 2022, and \$114,600 in 2021. In 2000, real mean household income was \$95,280.

**Real Household Income**  
thousands of 2023 US dollars



Real median household income (see —), the price-adjusted midpoint among household incomes, is \$80,610 in 2023, \$77,540 in 2022, and \$79,260 in 2021. For comparison, real median household income was \$70,020 in 2000. Since 2000, real median income increased by a total of 15.1 percent.

The price-adjusted income limit for the 90th percentile is \$234,900 in 2023 (see —), \$224,500 in 2022, \$237,400 in 2021, and \$186,800 in 2000. Ten percent of households make more than this level.

On the opposite end of the income distribution, the 10th percentile income limit is \$18,980 in 2023 (see —), \$17,780 in 2022, \$17,540 in 2021, and \$17,650 in 2000. Ten percent of households make less than this level.

The Census Bureau also report household income based on the race or ethnicity of the householder. Household income varies substantially by race, in the US, and the racial income gap has been persistent, over time.

**Real Median Household Income**  
thousands of 2023 US dollars



Black median household income is \$56,490 in 2023, compared to an inflation-adjusted equivalent of \$54,960 in 2022 (see —). Non-Hispanic white median household income is \$89,050 in 2023 and \$84,280 in 2022 (see —). Hispanic (any race) median household income is \$65,540 in 2023 and \$65,300 in 2022 (see —). Asian median household income is \$112,800 in 2023 and \$113,100 in 2022 (see —).

Two values are shown for 2013 and 2017 to mark revisions to the survey design (2013) and the processing of survey data (2017). These data are not perfectly comparable over time.



Lastly, the Census Bureau [report](#) median household income by state, calculated using the American Community Survey. In 2023, the median US household income, using this measure, is \$77,719. In the same year, the median income in 19 states and the District of Columbia is above the national median, and the median income in 31 states is below the national median.

In 2023, the District of Columbia tops the list, with a median household income of \$108,210. Massachusetts has the second highest income (\$99,858), followed by New Jersey (\$99,781). Other high-income states include Maryland (\$98,678), New Hampshire (\$96,838), California (\$95,521), Hawaii (\$95,322), Washington (\$94,605), Utah (\$93,421), and Colorado (\$92,911).

The state with the lowest 2023 median household income is Mississippi (\$54,203), followed by West Virginia (\$55,948), Louisiana (\$58,229), Arkansas (\$58,700), Kentucky (\$61,118), and Oklahoma (\$62,138). Median household income in Puerto Rico is \$25,621.

### Household Income, 2023

*median household income by state, 2023 US dollars*



Source: Census Bureau, American Community Survey



## Household Spending and Saving

The preceding subsection focused on household income, whereas this subsection covers household **spending and saving**. **Consumer spending** encompasses household outlays on goods and services, including government-provided benefits like Medicare and Medicaid, and imputed services such as the assumed rental value of owner-occupied housing.

**Personal saving** occurs when households have income in excess of their expenses. Savings are invested, often providing additional income, and are used for future expenses, such as costs incurred during retirement. Both topics are covered in more depth below.

### Consumer Spending

Over the last three decades, the expansion of **consumer spending** has been a primary driver of economic growth. Consumer spending usually increases when households have more income and falls when households have less income. This effect is visible in both the long-run and during the course of a business cycle, with consumer spending generally falling or slowing during a recession. Some categories of spending fell sharply during COVID-19 business closures and restrictions.

Consumer spending is comprised of two broad expenditure types: goods and services. Spending on goods includes durable goods (goods with a useful life of at least three years), such as cars, furniture, or recreational goods, and nondurable goods, such as groceries, clothing, and gasoline. Spending on services includes housing, health care, restaurants and bars, transportation services, financial services, and other services.

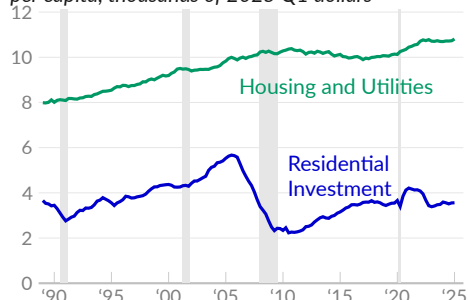
**Expenditures, by Type**  
per capita, thousands of 2025 Q1 dollars



Source: Bureau of Economic Analysis

Total consumer spending is \$20.5 trillion in 2025 Q1, compared to a price-adjusted \$20.4 trillion in 2024 Q4 and \$17.7 trillion in 2019 Q4. On a per person basis, consumer spending is \$60,090 in 2025 Q1, of which \$18,732 are spent on goods (see —) and \$41,359 on services (see —). In the fourth quarter of 2019, before the pandemic, consumer spending on goods was \$15,879 per person, and spending on services was \$37,719 per person, after adjusting for inflation.

**Shelter Costs**  
per capita, thousands of 2025 Q1 dollars



Source: Bureau of Economic Analysis

Within consumer spending on services, housing and utilities spending totals \$10,807 on an annualized and per person basis in 2025 Q1 (see —) and \$10,138 in 2019 Q4. Construction or improvement of housing is considered residential fixed investment, not consumer spending, but can be combined with spending to analyze patterns in shelter costs. In 2025 Q1, residential investment totals \$3,562 per person (see —), compared to \$3,547 in the pre-COVID data covering 2019 Q4.

## Consumer Spending and Residential Fixed Investment

The previous two charts cover spending on goods, spending on services other than shelter, and spending on housing, utilities, and residential fixed investment. Investment is not typically grouped with spending, as investment is a form of saving. Spending reduces a household's cash balance, while investment exchanges cash for another asset. The two categories are grouped in the following charts to provide a more broad overview of what households are doing with their income.

### Expenditures, by Type

per capita, thousands of 2025 Q1 dollars



Source: Bureau of Economic Analysis

Consumer spending on services other than housing and utilities totals \$30,552 per person, on an annualized basis, in 2025 Q1 (see —), compared to an inflation-adjusted \$30,439 in 2024 Q4, and \$27,581 in 2019 Q4. Spending on non-housing services has increased 10.8 percent since 2019 Q4.

Shelter costs, which combine housing, utilities, and residential fixed investment, are \$14,368 per person in 2025 Q1 (see —), \$14,285 in 2024 Q4, and \$13,685 in 2019 Q4. Shelter spending peaked at \$15,667 per person in the third quarter of 2005, during the housing bubble.

### Expenditures, by Type

per capita, seasonally-adjusted annualized rate, 2025 Q1 dollars

	2025 Q1	2024 Q4	2024 Q1	2019 Q4	2000 Q1	1989 Q1
Consumer Spending	\$60,090	59,899	58,719	53,556	40,354	31,528
— Goods	18,732	18,730	18,175	15,879	10,533	7,903
Motor Vehicles & Parts	2,197	2,265	2,098	2,094	1,761	1,326
Furniture & HH Equipment	1,453	1,449	1,379	1,189	592	410
Recreational Durable Goods	1,994	1,984	1,876	1,230	256	75
Groceries	4,462	4,440	4,393	4,184	3,393	3,370
Clothes & Shoes	1,563	1,539	1,535	1,326	952	707
— Services Excluding Shelter	30,552	30,439	29,852	27,581	21,100	16,177
Health Care Services	10,095	10,008	9,707	8,689	5,706	5,166
Transportation	2,020	1,997	1,946	1,958	1,735	1,205
Recreational	2,406	2,381	2,357	2,270	1,748	1,248
Food & Accommodations	4,273	4,302	4,284	4,026	3,110	2,856
Financial & Insurance	4,833	4,816	4,770	4,446	4,559	2,701
— Shelter Including Investment	14,368	14,285	14,287	13,685	13,562	11,647
Housing Services & Utilities	10,807	10,730	10,695	10,138	9,191	7,988
Residential Fixed Investment	3,562	3,555	3,593	3,547	4,371	3,659

Source: Bureau of Economic Analysis

## Contributions to Economic Growth

Next, we examine the effect on GDP growth from changes in consumer spending on goods (see ■), services excluding housing and utilities (see ■), and shelter (see ■), calculated as housing and utilities plus residential fixed investment. These categories contributed 1.2 percentage points to GDP growth in 2025 Q1 and contributed 2.7 percentage points in 2024 Q4, compared to an addition of 1.8 percentage points in 2019 Q4, before the pandemic.

### Consumer Spending and Residential Investment

percentage point contribution to real GDP growth, one-year moving average



Source: Bureau of Economic Analysis

In the first quarter of 2025, household spending on goods contributed 0.1 percentage point to GDP growth, household spending on services other than housing and utilities added 0.7 percentage point, and shelter spending and investment contributed 0.5 percentage point.

### Consumer Spending and Residential Investment

percentage point contribution to real GDP growth

	2025	'24	'24	'24	moving averages		
	Q1	Q4	Q3	Q1	1- year	10- year	30- year
Consumer Spending	1.21	2.70	2.48	1.30	2.07	1.94	1.87
■ Goods	0.11	1.30	1.18	-0.25	0.80	0.85	0.82
Motor Vehicles & Parts	-0.30	0.46	0.22	-0.20	0.14	0.07	0.09
Furniture & HH Equipment	0.03	0.09	0.15	0.00	0.10	0.09	0.09
Recreational Durable Goods	0.06	0.30	0.16	-0.04	0.16	0.21	0.22
Groceries	0.13	0.09	0.14	-0.01	0.12	0.13	0.10
Clothes & Shoes	0.12	0.09	0.03	0.05	0.04	0.07	0.08
■ Services Excluding Shelter	0.69	1.28	1.21	1.46	1.05	0.93	0.86
Health Care Services	0.46	0.53	0.79	0.76	0.53	0.40	0.32
Transportation	0.12	0.08	-0.10	0.01	0.10	0.06	0.05
Recreational	0.12	0.12	0.01	0.07	0.07	0.06	0.06
Food & Accommodations	-0.11	0.14	0.07	-0.12	0.02	0.12	0.10
Financial & Insurance	0.10	0.16	0.21	0.31	0.11	0.06	0.11
■ Shelter Including Investment	0.46	0.35	-0.08	0.62	0.21	0.23	0.23
Housing Services & Utilities	0.41	0.13	0.10	0.09	0.22	0.16	0.20
Residential Fixed Investment	0.05	0.22	-0.18	0.53	-0.01	0.07	0.04

Source: Bureau of Economic Analysis

## Consumer Spending Growth

While the previous charts are inflation- and population-adjusted, actual transactions in the economy are not. The following charts consider changes in all three factors: real per capita consumer spending (see ■), inflation (see ■), and population growth (see ■).

Since 1989, total US consumer spending increased at an annual rate of five percent. Real per capita spending increased by 1.8 percent per year, inflation added 2.3 percentage points, and population growth added 0.9 percentage point. In the latest full year of data, 2024, nominal consumer spending growth is 5.3 percent, real per capita growth is 1.8 percent, inflation is 2.6 percent, and population growth is 0.9 percent.

### Consumer Spending Growth

contributions to annual growth, percent

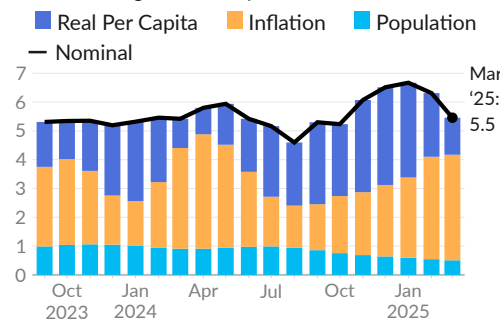


Next, recent growth is calculated as the latest three months growth from the previous three (3M/3M). This measure reflects newer data than annual growth rates and is steadier than monthly rates.

Using this measure, nominal consumer spending increased at an annual rate of 5.5 percent in March 2025. Real per capita growth was 1.3 percent, inflation contributed 3.7 percent, and population growth added 0.5 percent.

### Recent Growth

last 3 months growth from prev. 3 months, annualized



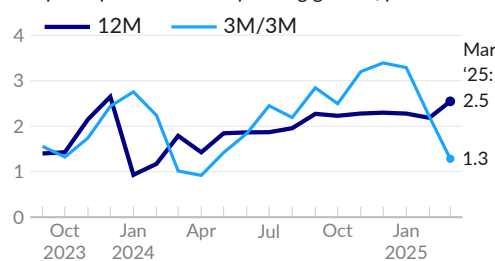
Real per capita consumer spending is the core of consumer spending. Recent growth rates can be an important economic indicator, and are presented below, as both 12-month growth (12M) and the last three months growth from the prior three (3M/3M).

Over the 12 months ending March 2025, real per capita consumer spending increased 2.5 percent, following increases of 2.2 percent in February and 1.8 percent in March 2024 (see —).

The three month growth rate (3M/3M) is 1.3 percent in March, 2.2 percent in February, and one percent one year prior (see —).

### Recent Real Per Capita Growth

real per capita consumer spending growth, percent



## Sources of Consumer Spending Growth

Researchers typically decompose changes in spending based on categories of spending, but we can also view **spending as the result of income and saving**. Ultimately, spending comes from income. Income, however, is more volatile than spending, and households use saving to smooth their consumption across spikes in income and across their lifespan.

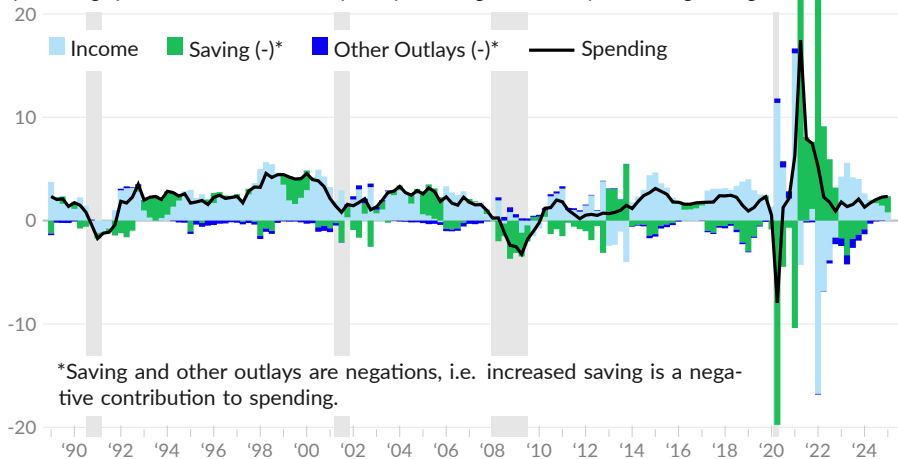
To see this pattern, the following charts show the contribution to changes in real per capita consumer spending (see —) from changes in income (see ■), changes in personal saving (see ■), and changes in other outlays (see ■) such as interest payments, fines, fees, and charitable giving. Changes in spending and other outlays are negations in this approach, as increased saving means reduced spending. In the charts below, a *reduction* in saving or other outlays positively contributes to spending.

Since 1989, annualized real per capita consumer spending growth of 1.8 percent is explained by a 1.9 percent increase in disposable income. Saving was virtually unchanged, while increases in other outlays subtracted 0.1 percentage point per year.

Spending increased at an average rate of 2.3 percent over the four quarters ending 2025 Q1. Higher income added 0.8 percentage point, decreased saving added 1.5 percentage points, and decreases in other outlays didn't affect the total.

### Contributions to Consumer Spending Growth

percentage point contribution to real per capita PCE growth, one-year moving average



Source: Bureau of Economic Analysis

Real per capita consumer spending over the past three months compared with the previous three months shows annualized growth of 1.3 percent in March 2025. Higher income contributed 2.4 percentage points, increased saving subtracted 1.4 percentage points, and decreases in other outlays contributed 0.3 percentage point.

Higher interest rates, which count as other outlays, can eat into consumer spending. Since the start of 2022, increases in other outlays have reduced consumer spending by 0.4 percentage point per year.

### Recent Contributions

last 3 months growth from prev. 3 months, annualized



Source: Bureau of Economic Analysis

## Personal Saving

The after-tax income that people do not spend is **considered personal saving**, from an economic accounting perspective. Peoples' savings are invested through the financial system and become the current fixed investment or consumption activities of other groups in the economy. Savers generally receive a return from this investment.

In March 2025, the Bureau of Economic Analysis [report](#) a personal saving rate of 3.9 percent (see —). The personal saving rate decreased by a total of 3.6 percentage points since February 2020.

### Personal Saving Rate

saving as a share of after-tax income, percent



## Distribution of Saving

With such a wide distribution of after-tax income, **saving rates vary massively between households**. Some households dissave and others save more than two typical incomes. Saving by income quintile is calculated using the [Consumer Expenditure Surveys \(CE\)](#) as after-tax income minus spending (other than spending on pensions). The following chart shows the average saving of each group divided by the US median personal income, thus reporting saving, or dissaving, in terms of a typical annual US income.

### Saving Rate by Income Quintile

income quintile average saving, as share of US median personal income, percent



The 20 percent of households with the least income dissave the equivalent of 40.5 percent of the US median personal income in 2023 (see —). This group includes people going into debt and retirees dissaving. In the same period, the top 20 percent of households save the equivalent of 204.5 percent of the median income (see —).

The middle fifth of households by income, percentiles 40–60, saved the equivalent of 15.8 percent of the median income (see —). The fifth of households below the middle group, in percentiles 20–40, did not save in 2023, but dissaved less than previous years (see —).

## Consumer Sentiment

The University of Michigan conducts a monthly [survey](#) of **consumer sentiment** (see [—](#)). The survey asks about personal finances, business conditions, and buying conditions. An increase in consumer sentiment means individuals feel more confident about economic conditions and are more willing to make large purchases or take on debt.

As of April 2025, the latest value of the consumer sentiment index is 52.2, following 57.0 in March 2025, and compared to 77.2 one year prior, in April 2024. As a pre-COVID baseline, the index average value was 97.3 during the year ending February 2020; the consumer sentiment index is currently 46.4 percent below this level.

### Consumer Sentiment

index, 1966=100



Source: University of Michigan

The consumer sentiment index combines views on current and future economic conditions. In April 2025, the index tracking views on current economic conditions was 59.8, compared to 63.8 in March 2025, and 110.8 in 2019 (see [—](#)).

In April 2025, the index tracking consumer expectations for future economic conditions was 47.3, compared to 52.6 in March 2025, and 86.5 in 2019 (see [—](#)).

### Consumer Sentiment Index Components

index, 1966=100



Source: University of Michigan



## Household Balance Sheets

The vast majority of US wealth is found on private **household balance sheets**. Households own residential real estate and consumer durable goods, but also own equity in businesses, directly and indirectly, and hold financial claims on businesses and on the public sector. This subsection discusses household debt, assets, and net worth.

According to the US financial accounts, the combined household and nonprofit sectors have \$190.2 trillion in assets and \$20.8 trillion in liabilities, resulting in a net worth of \$169.4 trillion, as of 2024 Q4.

Household balance sheets have grown relative to income. In 2024 Q4, assets are equivalent to 867.2 percent of disposable personal income (DPI), compared to 607.7 percent in 1989 (see —). Household liabilities are currently 94.8 percent of DPI, compared to 82.3 percent in 1989 (see —).

Household net worth is equivalent to 772.3 percent of DPI in 2024 Q4, 703.6 percent in 2019, and 525.4 percent in 1989 (see —).



## Liabilities

**Household liabilities** affect consumer behavior and can signal potential economic risks. The primary form of household debt is home mortgages, but there has been a substantial increase in consumer debt as well. This subsection examines household debt using two data sources: the financial accounts, and the Federal Reserve Bank of New York's Consumer Credit Panel.

The liabilities of households and nonprofit institutions total \$20.8 trillion in 2024 Q4, as [reported](#) by the Federal Reserve. Home mortgages are the main household liability, and total \$13.3 trillion (see ■). Consumer credit liabilities include auto loans, credit card debt, student loans, and other personal loans, and total \$5.0 trillion (see ■). The remaining liabilities are primarily attributable to nonprofits (see ■).

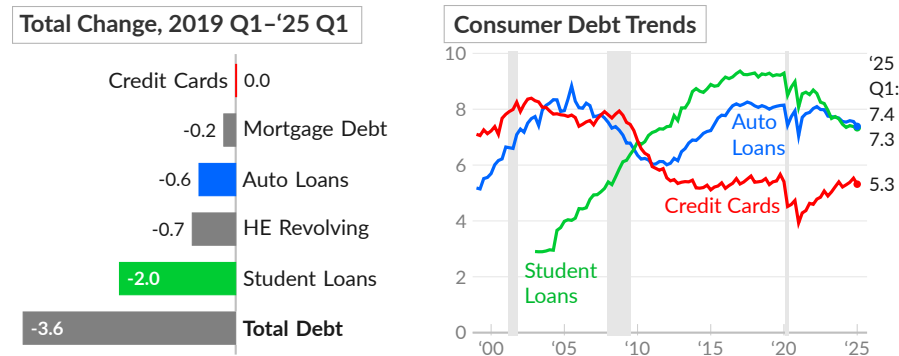
The ratio of household and nonprofit debt to disposable personal income has fallen to 95.0 percent in 2024 Q4 from the housing bubble peak of 137.0 percent in 2007. Over the past five years, household and nonprofit debt has increased 25.8 percent while disposable personal income increased 34.6 percent. As a result, the debt-to-income ratio has fallen by six percentage points.



Federal Reserve Bank of New York (FRBNY) [data](#) show \$18.2 trillion in **household debt** in the first quarter of 2025, which translates to 81.9 percent of disposable personal income. Over the past six years, household debt increased by \$4.54 trillion, compared to a \$6.24 trillion increase in disposable personal income. As a result, the ratio of debt to income dropped by 3.6 percentage points over this period.

## Household Debt

share of disposable personal income, percent



Source: Federal Reserve Bank of New York and Bureau of Economic Analysis

The FRBNY data show mortgage debt, including home equity lines of credit, totals \$13.21 trillion in the first quarter of 2025, equivalent to 59.4 percent of disposable personal income. Student loans total \$1,631 billion, or 7.3 percent of income; auto loans total \$1,642 billion (7.4 percent of income); and credit card debt is \$1,182 billion (5.3 percent of income).

Over the past six years, the ratio of total mortgage debt to disposable personal income fell by 0.9 percentage point, compared to a decrease of two percentage points for student loans, a decrease of 0.6 percentage point for auto loans, and virtually no change for credit card debt.

## Household Debt Outstanding

trillions of US dollars

share of disposable personal income

	2025 Q1	2024 Q4	'25 Q1	'24 Q4	'19 Q1	'13 Q1	'03 Q1
Financial Accounts Total	-	\$20.79T	-	95.0	99.6	113.0	109.1
■ Mortgage Debt Total	-	\$13.34T	-	60.9	63.4	77.2	74.7
■ Consumer Credit	-	\$4.99T	-	22.8	25.0	23.8	24.0
■ Other	-	\$2.46T	-	11.2	11.2	12.0	10.4
Consumer Credit Panel Total	\$18.20T	\$18.04T	81.9	82.4	85.4	91.7	87.3
Mortgage Debt Total	\$13.21T	\$13.00T	59.4	59.4	60.3	69.2	62.6
Mortgage	\$12.80T	\$12.61T	57.6	57.6	57.8	64.7	59.6
Home Equity Revolving	\$0.40T	\$0.40T	1.8	1.8	2.5	4.5	2.9
Consumer Credit	\$5.00T	\$5.04T	22.5	23.0	25.1	22.4	24.7
■ Auto Loan	\$1.64T	\$1.66T	7.4	7.6	8.0	6.5	7.7
■ Credit Card	\$1.18T	\$1.21T	5.3	5.5	5.3	5.4	8.3
■ Student Loan	\$1.63T	\$1.61T	7.3	7.4	9.3	8.0	2.9
Other	\$0.54T	\$0.55T	2.4	2.5	2.5	2.5	5.8

Source: Federal Reserve, Federal Reserve Bank of New York, Bureau of Economic Analysis  
Financial Accounts include debt of nonprofit institutions and the Consumer Credit Panel does not include people without a social security number.

## Consumer Credit

The Federal Reserve also [report consumer credit](#) on a monthly basis. In the monthly measure, consumer credit totals \$5.01 trillion US dollars on a seasonally-adjusted and annualized basis in March 2025. Over the past year, consumer credit decreased by 0.8 percent, while after-tax income increased by four percent. As a result, the ratio of consumer credit to disposable income decreased by a total of 1.1 percentage points. In March 2025, total consumer credit is equivalent to 22.4 percent of annualized March 2025 disposable income (see —).

The latest comparable figure from the FRBNY data discussed in the previous section, which covers 2025 Q1, shows consumer credit is equivalent to 22.5 percent of annual disposable personal income (see —). Over the past year, the ratio decreased by a total of 0.3 percentage point.

### Consumer Credit

share of disposable personal income, percent



## Financial Obligations

Payments to service debt, along with rent, auto lease payments, homeowner's insurance, and property tax are considered financial obligations. The Federal Reserve [report debt service](#) as a share of disposable personal income. The ratio of debt service payments and rent to income gives insight into the overall financial burden faced by households.

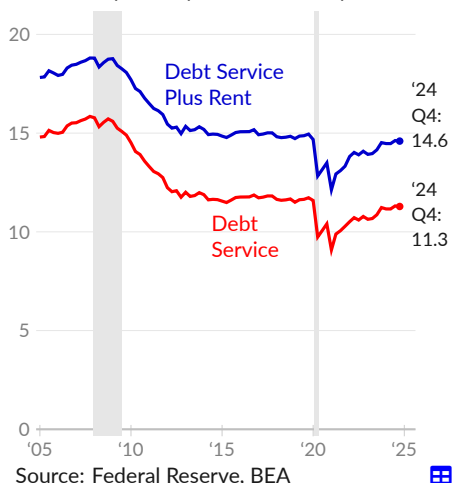
The ratio of debt service and rent payments to disposable personal income peaked at 18.8 percent in 2007 Q4, during the housing bubble.

As of 2024 Q4, **debt service and rent** are 14.6 percent of after-tax income (see —), an increase of 0.08 percentage point from the year prior. The ratio fell by 0.35 percentage point since 2019.

In the latest quarter, the ratio of **debt service** payments to income is 11.3 percent (see —). The debt service ratio fell by 0.44 percentage point since 2019. In 2024 Q4, the ratio of mortgage debt service to income is 5.8 percent, and the ratio of consumer credit debt service to income is 5.5 percent.

### Debt Service and Rent Obligations

share of disposable personal income, percent



## Assets

According to the US Financial Accounts produced by the Federal Reserve, the market value of **household and nonprofit assets** is \$190.2 trillion in 2024 Q4, equivalent to 640 percent—or 6.4 years—of GDP. Of this, \$61.3 trillion, or 32.2 percent of the total, are tangible (non-financial) assets and \$128.9 trillion, or 67.8 percent, are financial assets.

Tangible assets include peoples' homes as well as consumer durable goods, such as cars, furniture, and appliances. Owner-occupied real estate is valued at \$48.1 trillion in 2024 Q4, equivalent to 162 percent of GDP (see ■). The replacement value of consumer durable goods is \$8.2 trillion, or 27 percent of GDP.

Financial assets include equity in businesses—corporate and non-corporate—with a market value of \$71.6 trillion, or 241 percent of GDP (see ■), in 2024 Q4. Debt securities and loan assets total \$12.8 trillion, or 43 percent of GDP (see ■). Cash and deposits, including money market accounts, total \$19.4 trillion, or 65 percent of GDP (see ■). Other financial assets total \$25.0 trillion.

### Selected Household and Nonprofit Assets

share of GDP, percent



Source: Federal Reserve, Bureau of Economic Analysis

The inflation-adjusted value of household and nonprofit assets grew 5.5 percent over the year ending 2024 Q4. The growth is relatively broad-based. The main contribution is an increase in the market value of business equity.

### Contributions to Real Growth in Household and Nonprofit Assets

contribution to one-year percent change in assets, adjusted by PCE price deflator



Source: Federal Reserve, Bureau of Economic Analysis

## Household and Nonprofit Assets

various measures:	trillions of USD	share of GDP		real annual growth rate		
	2024 Q4	2024 Q4	2023 Q4	One-year	Three-year	20-year
Total Assets	\$190.2	639.7	621.7	5.5	0.2	2.9
Nonfinancial Assets	61.3	206.2	204.5	3.4	2.4	2.1
■ Owner-Occupied Real Estate	48.1	161.7	158.7	4.4	3.4	2.1
Consumer Durable Goods	8.2	27.5	27.8	1.5	1.5	1.5
Nonprofit Assets	5.0	17.0	18.0	-3.3	-4.9	2.3
Financial Assets	128.9	433.6	417.2	6.5	-0.8	3.4
■ Deposits, Incl. Money Market	19.4	65.4	64.5	4.0	-1.2	3.7
■ Debt Securities & Loans	12.8	43.2	44.2	0.2	3.5	2.4
■ Business Equity	71.6	240.8	221.9	11.2	-0.3	4.5
Corporate Equities	56.0	188.5	166.8	15.9	0.6	5.5
Noncorporate Business Equity	15.5	52.3	55.1	-2.7	-3.4	2.0

Source: Federal Reserve, Bureau of Economic Analysis

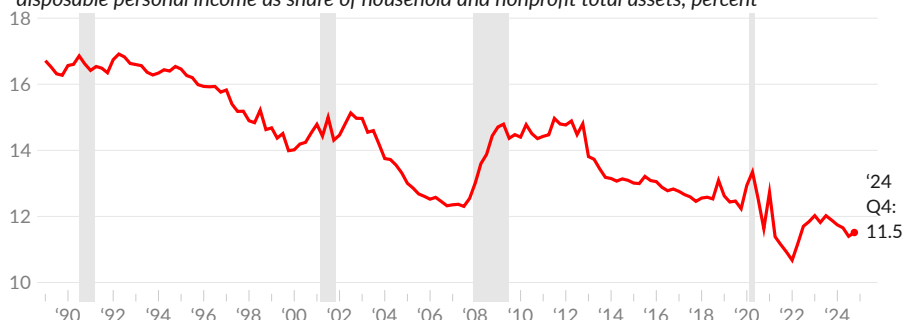


## Return on Assets

Asset prices rising faster than income can be viewed as a decrease in the expected rate of return on total household assets. This can be measured by disposable income as a share of household assets. In 2024 Q4, disposable income is equivalent to 11.5 percent of the market value of US assets (see —), compared to an average of 16.0 percent during the 1990s.

## Return on Household Assets

disposable personal income as share of household and nonprofit total assets, percent



Source: Federal Reserve, Bureau of Economic Analysis



## Wealth

In the aggregate, US households are very wealthy. **Household wealth** totals \$170.9 trillion in 2024 Q4 (see —), equivalent to \$500,800 per capita. The vast majority of this wealth, however, is held by the wealthiest families. In the 2022 [Survey of Consumer Finances](#), 73.4 percent of wealth is held by the wealthiest ten percent of families (see ■ ).

### Household Wealth / Net Worth Summary

trillions of 2024 Q4 US dollars (left), and percent of US wealth held by each decile, 2022 (right)



Source: Federal Reserve, Survey of Consumer Finances

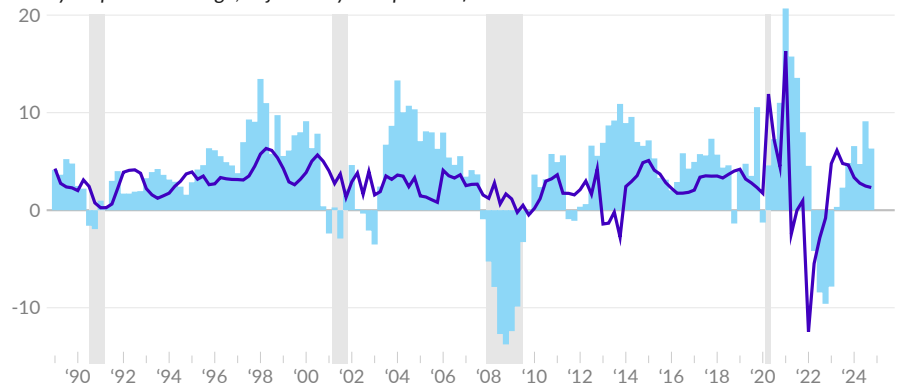
## Growth Rate

Over the long run, the market value of household assets has risen much faster than the total level of household debt, resulting in a substantial increase in aggregate net worth. In 2024 Q4, household and nonprofit institution net worth was \$169.4 trillion, equivalent to 7.7 years of disposable personal income; the result of total assets of \$190.2 trillion and total liabilities of \$20.8 trillion.

In 2024 Q4, inflation-adjusted net worth increased by 6.3 percent (see ■ ), and inflation-adjusted after-tax income increased by 2.3 percent (see —). Over the past five years, real net worth grew at an average rate of 4.7 percent, while real after-tax income grew at an average rate of 2.5 percent.

### Net Worth and After-Tax Income Growth

one-year percent change, adjusted by PCE price deflator



Source: Federal Reserve, Bureau of Economic Analysis



The Federal Reserve [report net worth by percentile](#). The top one percent of households by wealth own 30.8 percent of US wealth, as of 2024 Q4 (see —), while the top 10 percent of households own 67.2 percent. The bottom half of households own 2.5 percent of US wealth (see —).

Since 1989, the wealth share of the top one percent increased 7.9 percentage points, while the share held by the bottom 50 percent decreased one percentage point. The wealth share of the 40 percent of households in wealth percentiles 50 through 90 decreased 5.4 percentage points since 1989.

### Share of US Wealth



## Wealth and Income

While wealth can be a source of income, wealth does not correspond perfectly to income. For example, early-career professionals with student debt may have a negative net worth and a high income. Despite corner cases, data on **family income by wealth percentile** clearly shows that income tends to increase with wealth.

Additionally, the before-tax income of the wealthiest ten percent of families (see —) has [increased](#) substantially more than the income of other groups. The top ten percent of families by wealth, percentiles 90 to 100 with a mean wealth of \$7.8 million and a median wealth of \$3.8 million in 2022, have a typical annual income of \$301,600 in 2022 and \$180,400 in 1989, after adjusting for inflation. Income for the group increased \$121,200, or 20.5 percent per year, over the 33-year period.

### Pre-Tax Income by Wealth Percentile



Families in the third wealth quartile (50th to 74.9th percentiles, mean wealth of \$373,800 in 2022), have a typical income of \$83,200 in 2022 and \$72,200 in 1989 (see —), an increase of \$11,100 (5.3 percent per year).

Second quartile (25th to 49.9th percentile, mean wealth of \$98,800) family income increased \$8,900 (6.1 percent per year) to \$59,500 in 2022, from \$50,500 in 1989 (see —).

For the bottom quarter of families by wealth (see —), typical income increased \$10,500 or 14.1 percent per year to \$34,600, over the 33 years ending 2022. The bottom quarter of families have no wealth.

## Wealth and Race

In the US, wealth **varies** substantially by race and ethnicity. In 2022, white non-Hispanic families' average net worth was \$1,361,800, compared to \$211,600 for black non-Hispanic families, and \$227,500 for Hispanic families of any race. Additionally, typical (median) family wealth is much lower than average (mean) family wealth, as the result of a concentration of wealth among the wealthiest families.

### Racial Wealth Gap

net worth by race/ethnicity, thousands of US dollars, 2022



Source: Federal Reserve, Survey of Consumer Finances

White families have substantially more financial assets, including stocks, and are much more likely to receive inheritance and in vivo transfers. Income for black families is also substantially lower—about half of white family income. Persistent structural inequalities are seen in income data, but are also evident from measures of wealth and assets.

### Measures of Wealth and Income by Race or Ethnicity

by family, mean, thousands of 2022 USD



Source: Federal Reserve

In 2022, among the 284.3 percent of white families who own stocks, the average value of stock holdings is \$568,136. The return on these assets is a supplement to labor income and the assets themselves provide cushion against unexpected expenses. Meanwhile, black families have relatively few financial assets; only 44.1 percent of black families own stocks, with average stock holdings of \$80,400.

### Stock Holdings

mean value, thousands of 2022 USD



Source: Federal Reserve

### Stock Holdings

share of families with holdings, percent



Source: Federal Reserve



## Changes in Wealth

**Household wealth growth** is largely determined by capital gains (see ■), but is also the result of new saving. The portion of aggregate household income that isn't consumed by the household sector becomes net investment in the economy and adds to household wealth. Since 1989, household net investment averages 10 percent of after-tax income.

In the following chart, income invested at the historical-average rate (see ■) is shown separately from investment that is above or below trend (see ■). The separation distinguishes changes in disposable personal income from changes in decisions about how to use that income. Separately, changes in data sources or from natural disasters are identified as other volume changes (see ■).

### Net Worth Growth

*contribution to one-year percent change in net worth, nominal*



Source: Federal Reserve, Bureau of Economic Analysis

In the third quarter of 2023, holding gains contributed 4.6 percentage points to the 5.7 percent change in household net worth. Income invested at the 1989-onward average rate of 10.4 percent would have contributed 1.5 percentage points, and cyclical activity in investment did not seem to play a role as household net investment was 9.9 percent of disposable person income in 2023 Q3. Other volume changes subtracted 0.3 percentage point.

Over the past four years, net worth grew at an average rate of 7.9 percent. Holding gains contributed 6.1 percentage points to this total, on average; net investment of income contributed two percentage points; and other volume changes contributed 0.3 percentage point.

## Homeownership

The **homeownership rate** measures the percent of occupied housing units that are owner-occupied, as opposed to rented. In 2004, near to the peak of the housing bubble, the overall homeownership rate reached 69.2 percent. As of 2025 Q1, the Census Bureau [report](#) a homeownership rate of 65.2 percent (see —). Over the past five years, the overall US homeownership rate was virtually unchanged.

### Homeownership Rate

share of households occupied by owners, percent



Source: Census Bureau

Census data also show large differences in homeownership rates by race and ethnicity. Around three-quarters (74.2 percent in 2025 Q1) of non-Hispanic white households own their home (see —), compared to fewer than half of black and Hispanic households.

During the housing bubble, the homeownership rate for black households increased by nearly ten percentage points. Black homeownership peaked at 49.7 percent in the second quarter of 2004 but fell to 40.6 percent in 2019 Q2. The 2025 Q1 rate is 44.7 percent (see —).

The 2025 Q1 rate for Hispanic households is 47.8 percent, substantially below the 50.1 percent rate in 2007 Q1 (see —).

Use caution when interpreting homeownership rates during the COVID-19 pandemic. Individuals who are renters or homeowners are captured by the measure, but when an individual moves in with family and stops being a head of household, they are dropped from the measure. Therefore when renters move in with family the homeownership rate increases. The 2020 spike in homeownership rates reflects renters moving in with family.

### Homeowners' Equity

As seen during the collapse of the housing bubble, it is possible for a homeowner to have no equity in their home, for example if the market price of the home falls below the principal remaining on the mortgage. Owners' equity in their homes has increased substantially since the collapse of the housing bubble.

As of 2024 Q4, the Federal Reserve [report](#) owners' equity is 72.2 percent of residential real estate (see —). Over the past three years, the owners' equity share increased by a total of 2.5 percentage points.

Over the past year, the share increased by a total of 1.2 percentage points. The current share is substantially above the 1989 average of 67.9 percent.

### Owners' Equity Share of Real Estate

owners' equity as percent of real estate



Source: Federal Reserve

## Housing Construction

The Census Bureau [tracks](#) the issuance of **new residential building permits**, which offer insight into planned residential construction. In April 2025, a seasonally-adjusted annual rate of 1,422,000 new residential housing units were authorized by building permits, the lowest level since May 2024 (see [—](#)). Permits issued decreased by 59,000 (-4.0 percent) (annualized) over the previous month, decreased by 37,000 (-2.5 percent) over last April, and increased by 346,000 (32.2 percent) total over the past five years.

### Residential Construction Permits

*building permits issued, seasonally-adjusted annual rate, in thousands*

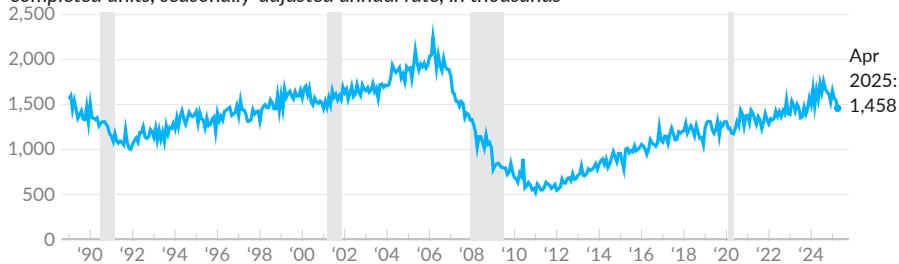


Source: Census Bureau

In addition to data on permits, the Census Bureau also report how many residential construction projects are started and completed. Not all permitted projects are built and completion can be affected by economic conditions. In April 2025, a seasonally-adjusted annual rate of 1,458,000 new residential units were completed (see [—](#)), compared to 1,549,000 in March and 1,565,000 in April 2024.

### Residential Construction Completions

*completed units, seasonally-adjusted annual rate, in thousands*

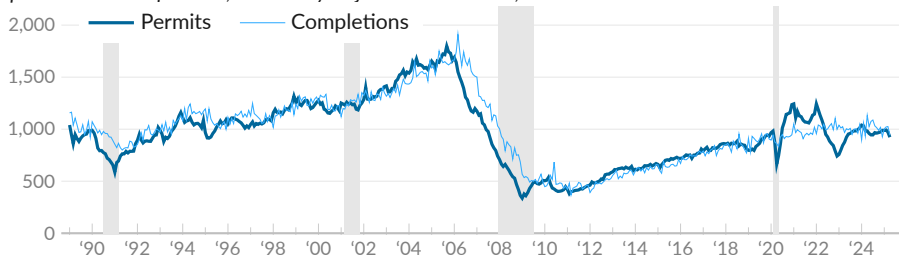


Source: Census Bureau

In April 2025, a seasonally-adjusted annual rate of 923,000 new single-family residential units were permitted and 943,000 were completed.

### Single-Family Units

*permits and completions, seasonally-adjusted annual rate, in thousands*

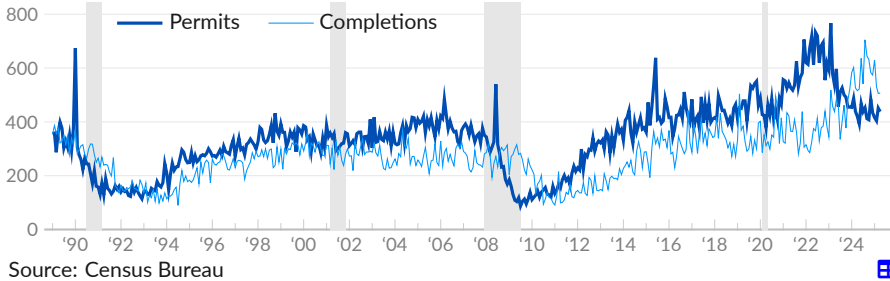


Source: Census Bureau

In April 2025, a seasonally-adjusted annual rate of 438,000 new multi-family residential units were permitted and 507,000 were completed.

### Multi-Family Units

*permits and completions, in thousands, seasonally-adjusted annual rate*



### New Residential Sales

In April 2025, seasonally-adjusted **annualized sales** of new single-family homes total 743,000 (see —), as **reported** by the Census Bureau. Over the past year, new home sales were unchanged. Pre-COVID, in February 2020, the annualized rate of single family new home sales was 707,000. Since February 2020, new home sales have increased 5.1 percent.

### New Home Sales

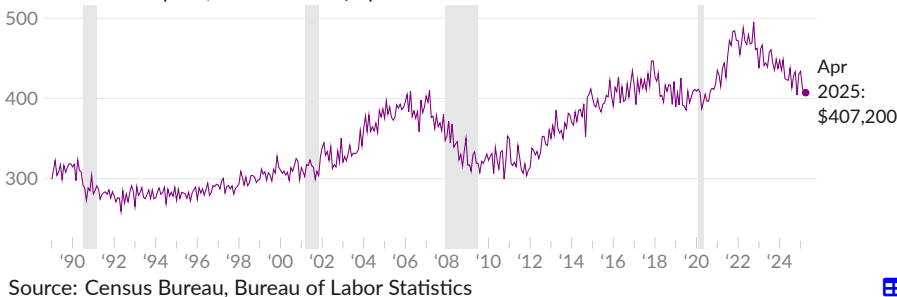
*new single family homes sold, in thousands, seasonally adjusted annual rate*



The Census Bureau also tracks the **sales price** of new single-family homes. In April 2025, the median new home sold for \$407,200 (see —), and the average sales price was \$518,400. The inflation-adjusted median sales price has decreased 4.2 percent over the past year, and increased 5.2 percent over the past five years. Since 1989, the inflation-adjusted median new home sales price increased 36.0 percent.

### New Home Sales Price

*real median sales price, in thousands of April 2025 dollars*



The **inventory** of new homes for sale affects housing prices. The Census Bureau [report](#) a seasonally-adjusted total of 504,000 new houses for sale in April 2025, an increase of 40,000 since April 2024. At the current pace of new home sales, it would take 8.1 months to exhaust the supply of unsold homes (see —). Current inventory levels are in line with the year-prior supply of 7.7 months and substantially above the long-term average supply of 6.0 months.

### Months Supply

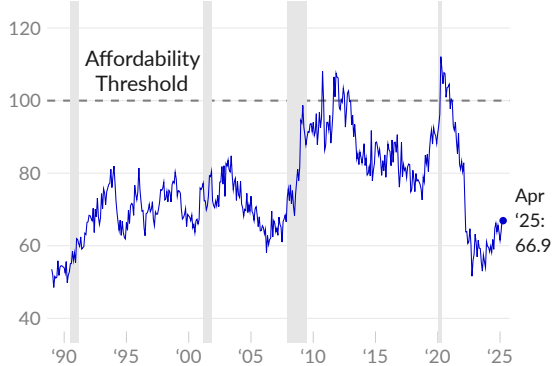
*new single family homes for sale divided by monthly sales, in months*



The monthly payment associated with new single-family home sales typically reflects both the sales price and the current mortgage interest rate. The monthly principal and interest payment for a 30-year fixed-rate mortgage on the median new home sold is \$2,371, as of April 2025, compared to an average of \$2,378 over the past three months, and an average of \$1,361 in 2019.

### New House Affordability

*index, new house monthly principal and interest payment relative to 1/3rd median usual full-time earnings,*



The **affordability of a new house** depends on both the monthly payment and people's ability to make the payment, usually determined by their income. New homes are affordable when the monthly payment is a third of income, or less.

The new house affordability index (see —) compares the monthly payment with one-third of the median full-time wage. The median full-time wage is sufficient to afford the median new home when index values are 100 or greater.

### New House Affordability

*index components*

	May '25	Apr '25	Mar '25	Feb '25	Apr '24	2019
Affordability Index	–	66.9	67.1	63.9	59.9	87.6
Monthly Payment (\$)	–	2,371	2,332	2,431	2,485	1,361
Median Home Price (\$)	–	407,200	403,700	412,500	415,300	319,267
Mortgage Rate (%)	6.80	6.72	6.65	6.84	6.99	3.93
Median Monthly Earnings (\$)	–	5,283	5,215	5,176	4,957	3,964

Source: Author's Calculations, Census Bureau, Freddie Mac, CPS  
See also the more-comprehensive [Home Ownership Affordability Monitor](#) from the Federal Reserve Bank of Atlanta.

## Housing Prices

The Federal Housing Finance Agency (FHFA) **house price index** [measures](#) changes in the price of the same home. The seasonally-adjusted index increased 3.9 percent over the year ending February 2025 (see [—](#)). The average of the latest three months of data compared to the previous three months shows an annualized growth rate of 4.5 percent (see [—](#)). In January 2025, the one-year growth rate was 5.0 percent and the three-month growth rate was 5.5 percent. Home prices in the Middle Atlantic region, which includes New Jersey, New York, and Pennsylvania, increased seven percent in February 2025, the highest one-year growth rate.

### House Price Index

*seasonally adjusted index, one-year percent change and three-month percent change*



Source: Federal Housing Finance Agency

### House Price Growth

*seasonally adjusted, one-year percent change*

	Feb '25	Jan '25	Dec '24	Nov '24	Feb '24	Feb '23	Feb '22	'03-'05 Average	'09-'12 Average
Middle Atlantic	7.0	8.5	7.3	6.7	10.6	5.3	14.6	11.3	-2.3
East North Central	6.5	7.0	6.4	6.1	9.4	5.2	14.9	4.3	-2.4
New England	6.1	7.5	8.0	7.7	11.4	5.4	17.6	10.3	-2.3
West North Central	4.2	5.0	5.3	5.0	7.4	4.7	14.7	5.4	-1.1
<b>United States</b>	3.9	5.0	4.8	4.6	7.3	4.4	18.7	9.1	-2.5
East South Central	3.7	4.4	3.7	3.9	4.7	7.9	19.8	5.1	-1.7
Mountain	3.5	4.3	5.0	3.8	4.4	1.3	24.0	11.0	-4.2
South Atlantic	3.2	4.1	4.4	4.6	7.5	6.8	23.0	11.3	-3.7
West South Central	2.1	2.8	2.3	2.3	3.6	5.6	18.5	4.3	0.3
Pacific	0.9	3.6	2.9	2.9	7.2	-2.2	19.3	18.3	-3.9

Source: Federal Housing Finance Agency

The purchase price of housing should move with the rental price. When housing prices exceed the rental equivalent, it may suggest that housing is overvalued.

During the housing bubble that caused the great recession, housing prices reached more than 40 percent above the rental equivalent. As of February 2025, housing prices are 43.1 percent above the rental equivalent (see [—](#)).

### Housing Price to Rent Ratio

*index, 1991=1*



Source: FHFA, BLS

## Poverty

In 2023, market income is below the poverty line for about one quarter (23.4 percent) of US households. Government programs reduce the poverty rate to 12.9 percent, [pulling](#) 34.9 million people out of poverty in 2023. This subsection discusses poverty definitions, who is in poverty, and which programs reduce poverty.

### Definitions

For purposes of program eligibility and economic statistics, poverty is defined by having income below the poverty threshold. The Official Poverty Measure (OPM) defines poverty as cash income below three times a price-adjusted 1963 minimal food budget. Under this definition, 36.8 million people are in poverty in the US in 2023.

The more-comprehensive Supplemental Poverty Measure (SPM) is based on food, shelter, clothing, and utilities costs and additionally captures program benefits and taxes, along with other adjustments. The SPM poverty level in 2023 is 43.0 million people.

### In Poverty, 2023

millions of people



Source: CPS ASEC

### Who is in poverty?

While some fully-employed people are in poverty, **the vast majority of poor people are either children, elderly, disabled, caregivers, or students.** Groups that are work-limited in some way cannot rely on labor markets and must rely on others and government programs to avoid poverty. These groups make up roughly 50 percent of the population but roughly 80 percent of those in poverty before taxes and transfers.

While poverty is far more likely for some groups than others, government programs also reduce market poverty for some groups more than others. These trends are summarized in the following charts, which show the breakdown of poverty by group (left) and the poverty rates for each group (right).

### Poverty Measures, 2023

■ Market Income ■ SPM ■ OPM



Source: CPS ASEC, Author's Replication of Bruenig, see [link](#)

OPM = Official Poverty Measure; SPM = Supplemental Poverty Measure. See text for description.

## Poverty by Age

The share of a group whose combined labor, capital, and welfare income is below the poverty line is the poverty rate for the group. In 2023, students, caregivers, and the disabled had the highest poverty rates. The poverty rate is low for the fully-employed.

By age, market income (see ■) leaves older people particularly vulnerable to poverty, as they are not as likely to have labor income. After government social benefits (see ■), the elderly have lower rates of poverty than other age groups. Young people and those just below social security and medicare age (late 50s and early 60s) remain particularly vulnerable to poverty, relative to other ages.

**Amount of Poverty by Age**  
in billions of 2023 US dollars



Source: CPS ASEC, 2014 adjusted for inflation with CPI-U-RS



## Poverty Rates

Since 1989, the official poverty measure (see —) shows between 10.5 percent and 15.1 percent of people in poverty each year, with an average poverty rate of 12.8 percent during the period. Poverty rates were above-average after the recession of 1991 and after the great recession, and below-average around 2000.

### Poverty Rates

in poverty, share of population, percent



Source: Census Bureau



In 2019, both the official US poverty rate and the more-comprehensive supplemental rate (SPM, see —) reached new lows of 10.5 percent and 11.8 percent, respectively.

In 2021, the official rate increased to 11.6 percent, while the SPM fell further, to a new low of 7.8 percent. The official poverty rate does not include stimulus checks, housing assistance, or tax credits, while the supplemental rate does. In 2022, the SPM bounced back to 12.4 percent, as stimulus expired, followed by 12.9 percent in 2023.



## Effect of Government Programs

The Census Bureau [report the number of people taken out of poverty by various programs](#), along with how many people are put in poverty by various expenses. In 2023, Social Security payments lift income above the poverty line for 27.6 million people, by far the most effective program for reducing poverty.

Refundable tax credits, which include the refundable portion of the child tax credit and the earned income tax credit, remove 6.4 million people from poverty, including 3.6 million children. Supplemental nutrition assistance (SNAP) removes 3.4 million people from poverty, while school lunch programs remove 1.2 million. Public assistance and welfare programs take 522,000 people out of poverty.

Several elements add to the number of people in poverty. Medical expenses are the most significant, and push 7.4 million people into poverty. Federal payroll taxes for Social Security and Medicare put 4.6 million people in poverty. Work expenses additionally put 3.8 million people in poverty.

## Effect of Individual Elements on Poverty Headcount

*individual element effect on number of people in poverty, in millions of people, 2023*



Refundable tax credits include the refundable portion of the child tax credit and the earned income tax credit. SNAP is the Supplemental Nutrition Assistance Program, SSI is Supplemental Security Income, TANF is Temporary Assistance for Needy Families, WIC is special supplemental nutrition assistance for women, infants, and children, and FICA is Federal Insurance Contributions Act payroll taxes.

Source: Author's Replication of Census Bureau Report



## Poverty and Geography

Poverty can be geographically concentrated. In the United States, some regions have particularly high and persistent poverty rates. In 2023, one third of people in the US have income below \$24,468. In some regions of the US, more than half of the population has income below this threshold.

Dividing the US into 741 commuter zones, 66 of these zones, covering 3.0 million people, have a majority of the population in bottom third of US income. Among the most extreme examples are Greenville, MS (62.3 percent), Gallup, NM (61.3 percent), Brownsville, TX (59.1 percent), and Laredo, TX (59.1 percent).

### Low-Income Share of Commuter Zone, 2023

*Share of commuting zone householders with income below \$24,468*



Source: American Community Survey, Author's Calculations



# Businesses

The factories, offices, and equipment that workers use to produce goods and services are all important to the economy. This section looks at the private business sector, with data covering business investment, retail sales, industrial production, corporate profits, and the financial activities of private businesses.

## Investment

Private business production relies on capital goods, such as buildings, equipment, and software. These items, with a useful life exceeding one year, are categorized as **fixed investment**, or investment in fixed assets. From an accounting perspective, these transactions are considered an exchange of assets—cash in exchange for capital goods—rather than expenses.

Over time, capital goods deteriorate, a process known as consumption of fixed capital or depreciation. From an accounting standpoint, depreciation represents the cost associated with the use of capital goods. Businesses must decide whether to replace or add to the existing stock of capital goods, and their new purchases of capital goods and inventory investment are considered **gross investment**. Net investment, which is gross investment minus depreciation, measures whether the stock of capital goods is expanding.

Net investment is important for many reasons. In the short run, the production and installation of capital goods adds directly to GDP and boosts economic activity. In the long run, **investments in fixed assets make workers more productive**, as they allow businesses to produce more goods and services with the same hours of work.

### Investment and Depreciation

share of GDP, percent



In the first quarter of 2025, gross private business investment totals \$4,274 billion on a seasonally-adjusted annualized basis, which is 14.3 percent of GDP (see —). Private business investment in fixed assets totals \$4,175 billion, or 13.9 percent of GDP (see —). Private business depreciation totals \$3,226 billion in the quarter, or 10.8 percent of GDP (see —). As a result, net fixed investment is \$949 billion, or 3.2 percent of GDP (see —).

In 2019 Q4, prior to the COVID-19 pandemic, private business gross investment was \$2,926 billion. Since 2019 Q4, gross investment increased at an annual rate of 7.5 percent. Net fixed investment was \$711 billion in 2019 Q4, and increased at an annual rate of 5.7 percent from 2019 Q4 to 2025 Q1, as growth of depreciation costs outpaced the increase in gross investment.

Note that gross investment includes fixed investment and inventory investment, or the **change in private inventories**. Changes to private inventories capture the difference between sales and production. Reduced production of new inventory explains much of the overall reduction in gross investment during the COVID-19 pandemic.

Business fixed investment encompasses structures, equipment, and intellectual property, such as software and R&D. Annualized investment in structures is \$917 billion in 2025 Q1, representing 3.1 percent of GDP (see —). Equipment investment is \$1,598 billion or 5.3 percent of GDP (see —), and intellectual property investment is \$1,660 billion, which is 5.5 percent of GDP (see —).



## Contribution to Growth

Business fixed investment plays an **outsized role in GDP growth**. From 1992 to 2000, business fixed investment contributed an average of 1.1 percentage points to GDP growth. Over the past three decades, the category contributed 0.6 percentage point, on average. Business investment added an average of 0.5 percentage point since 2019, and contributed 0.5 percentage point over the past year.

Private business gross fixed investment contributed 1.29 percentage points to annualized GDP growth in 2025 Q1. Within the category, investment in structures did not contribute to (see ■), investment in equipment contributed 1.06 percentage points (see ■), and investment in intellectual property added 0.22 percentage point (see ■).

## Business Gross Fixed Investment

contribution to real GDP growth, percentage points, annualized



## Business Gross Fixed Investment

contribution to real GDP growth, percentage points, annualized

moving averages

	2025 Q1	'24 Q4	'24 Q3	'24 Q1	'23 Q1	1- year	10- year	30- year
Total	1.29	-0.41	0.55	0.61	0.71	0.49	0.53	0.58
■ Structures	0.01	0.09	-0.16	0.20	0.43	-0.01	0.04	0.03
■ Equipment	1.06	-0.47	0.54	0.02	0.04	0.41	0.15	0.28
Information Processing	0.96	-0.13	0.29	0.06	-0.07	0.31	0.12	0.20
Computers & Peripherals	0.51	-0.14	0.21	0.15	-0.12	0.17	0.05	0.10
Industrial Equipment	-0.02	-0.01	0.06	0.09	0.02	-0.00	0.02	0.02
Transportation Equipment	0.15	-0.23	0.25	-0.15	0.15	0.14	0.01	0.04
■ Intellectual Property Products	0.22	-0.03	0.17	0.40	0.24	0.10	0.35	0.26
Software	0.20	0.06	0.06	0.24	0.06	0.09	0.21	0.16
Research & Development	0.04	-0.09	0.11	0.16	0.18	0.01	0.14	0.09

Source: Bureau of Economic Analysis

Productive business investments also show up as **new orders for core capital goods**. The category excludes the more-volatile aircraft orders as well as defense-related orders, and is derived from the Census Bureau [survey](#) of shipments, inventories, and orders.

New orders for manufactured core capital goods excluding aircraft total \$75 billion in March 2025, equivalent to 3.0 percent of GDP (see —). New orders increased 1.8 percent over the past year, and increased by 22.7 percent since February 2020.

### New Orders for Core Capital Goods

*nondefense capital goods ex-aircraft, share of GDP*



Source: Census Bureau



## Inventories

In the national accounts, **inventories** are the stock of goods held by firms, encompassing goods for sale, goods used in production and sales, and goods requiring further processing prior to sale. When economic activity is measured using spending on final goods, it must be adjusted for changes in inventories. For example, a rise in inventories indicates goods were produced but not sold, and therefore were not measured by consumer spending or investment.

One tool for measuring changes in inventories is the inventories-to-sales ratio. The Bureau of Economic Analysis [report](#) an inflation-adjusted ratio of inventories to sales in manufacturing and trade sectors (see —).

When examining trends in the ratio, note that business sales include services, whereas inventories account only for goods. In the three decades before the COVID-19 pandemic, a shift towards service-based sales led to a naturally lower inventories-to-sales ratio. Post-COVID-19, a rebound in goods sales, in turn, pushed this ratio higher, all else equal, masking some of the inventory shortages of the period.

### Inventories to Sales Ratio

*total business sector*



Source: FRED, BEA



The Census Bureau [report](#) the nominal **ratio of inventories to sales** for the total business sector (see —). In March 2025, the ratio of total business inventories to sales was 1.34, compared to 1.35 in February 2025, 1.37 in March 2024, and 1.43 in February 2020.

The inflation-adjusted version from BEA shows inventories at 1.51 times sales in February 2025, following a ratio of 1.53 in January 2025, and 1.54 one year prior, in February 2024. In 2019, real monthly inventories were 1.55 times real monthly sales, on average.

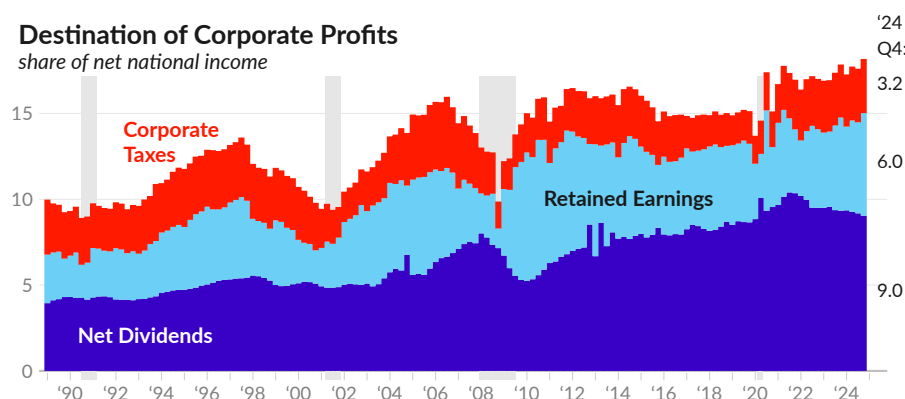
## Corporate Profits

The national accounts include detailed information on **aggregate corporate profits**. In the fourth quarter of 2024, corporate profits were \$4.01 trillion, equivalent to 18.2 percent of the income paid to US nationals after depreciation costs (net national income). Of this, \$1.99 trillion, equivalent to nine percent of net national income, were paid out as dividends (see ■), \$1,318 billion were retained (corporate saving, see ■), and \$695 billion, 17.3 percent of corporate profits, went to corporate income tax (see ■).

In 2019, corporate profits were 15.1 percent of net national income. Dividends were equivalent to 8.6 percent, corporate savings were 4.6 percent, and corporate income taxes were 1.8 percent of net national income and 12 percent of corporate profits.

### Destination of Corporate Profits

share of net national income

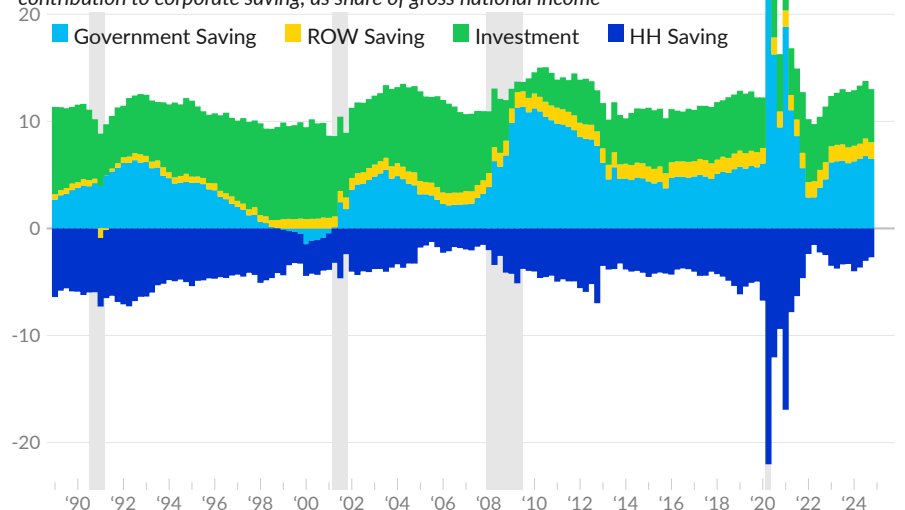


Source: Bureau of Economic Analysis

**Aggregate corporate savings** (corporate profits less dividends and corporate profit tax) are the result of net investment and non-business saving. Investment (see ■) is a source of aggregate profit because it is revenue for one party but not an expense for the other. Non-business saving, which includes household (see ■), government (see ■), and rest of world saving (see ■), necessarily reduces aggregate corporate profits because it is money that did not return to businesses as revenue.

### Sources of Corporate Saving

contribution to corporate saving, as share of gross national income



Source: Bureau of Economic Analysis

## Business Balance Sheets

Next, we look at the **balance sheets** of US private businesses. The Financial Accounts [report](#) assets, liabilities, and net worth for corporate and noncorporate businesses, each of which is discussed in this subsection.

The following charts cover nonfinancial businesses and show the ratio of balance sheet components to sector production, measured as the gross value added by the sector. The gross value added is essentially the GDP of the sector. For example, the corporate liabilities-to-sector-GDP ratio is 191.6 percent in 2024 Q3 (see —), as corporate liabilities total \$28.9 trillion and corporate sector gross value added is \$15.0 trillion. Noncorporate business liabilities equal 259.9 percent of the sector GDP (see —).

Corporate assets are equivalent to 413.4 percent of sector GDP in 2024 Q3 (see —), and corporate sector net worth, assets minus liabilities, is equivalent to 221.7 percent of sector GDP (see —). Noncorporate assets are equivalent to 583.9 percent of sector GDP (see —), and noncorporate business net worth is equivalent to 324.0 percent of sector GDP (see —).

### Nonfinancial Business Balance Sheets

share of sector gross value added, percent



Source: Federal Reserve

Analysis of private business balance sheets can help researchers understand risks in the sector. A high ratio of debt to assets, for example, can suggest businesses are over-leveraged. The following chart shows the **ratio of debt to assets** for nonfinancial businesses, separated by corporate and noncorporate businesses.

### Nonfinancial Business Debt-to-Asset Ratio

ratio of debt to assets, percent



Source: Federal Reserve

The ratio of corporate business debt to assets is 22.2 percent in 2024 Q4 (see —). One year prior, in 2023 Q4, the ratio was 22.2 percent, and, in 2019, the ratio averaged 22.8 percent.

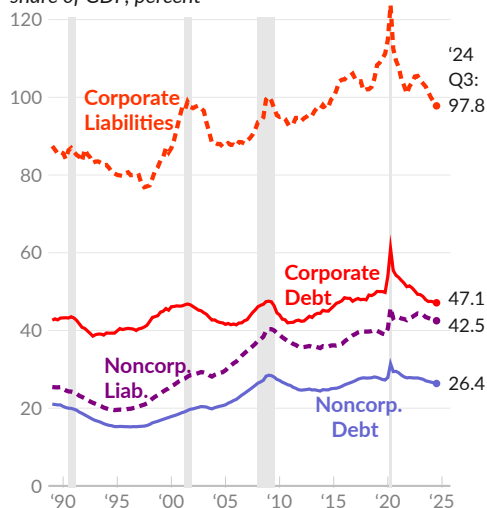
The noncorporate business debt to asset ratio is 27.7 percent in 2024 Q4 (see —), and 27.3 percent, one year prior. In 2019, the ratio was 29.1 percent.

## Business Liabilities

This subsection looks at types of **business liabilities**. Corporate nonfinancial businesses issue bonds, and have loans and mortgages, pension liabilities, and accounts payable. Noncorporate businesses primarily have mortgages and other loans. Both sectors have substantial miscellaneous liabilities, calculated as the unidentified residual of other aggregate balance sheet measures.

### Nonfinancial Business Liabilities

share of GDP, percent



Source: Federal Reserve

Corporate liabilities total \$28.9 trillion in the third quarter of 2024, equivalent to 97.8 percent of GDP (see —). Of this, corporate debt is equivalent to 47.1 percent of GDP (see —). In 2019, corporate liabilities are 109.6 percent of GDP and corporate debt is 50.0 percent.

Noncorporate business sector liabilities are equivalent to 42.5 percent of GDP in 2023 Q2 and 39.4 percent in 2019 (see —). Noncorporate business debt is 26.4 percent of GDP in the latest data and 27.6 percent in 2019 (see —).

The following table provides more details on the size of nonfinancial business liabilities relative to the overall economy.

### Nonfinancial Business Liabilities

share of GDP, percent

	2024 Q4	'24 Q3	'24 Q2	'23 Q4	'19 Q4	2010	1989
Corporate Liabilities (—)	97.1	97.8	98.8	101.3	111.2	94.4	86.4
Corporate Debt (—)	46.2	47.1	47.3	47.5	49.8	42.9	42.9
Corporate Bonds	24.1	24.5	24.4	24.5	26.6	22.0	16.5
Bank Loans & Mortgages	8.6	9.0	9.1	9.2	9.5	9.4	15.3
Nonbank Loans	9.0	9.1	9.1	9.1	8.4	7.0	6.9
Trade & Taxes Payable	12.8	12.9	12.9	13.4	14.5	11.5	11.1
Miscellaneous Liabilities	36.7	36.5	37.4	39.3	45.1	37.3	30.7
Noncorporate Liabilities (—)	42.5	42.5	42.7	43.2	39.0	38.0	25.4
Noncorporate Debt (—)	26.3	26.4	26.5	26.9	27.3	26.6	20.9
Mortgages	18.9	18.9	19.0	19.2	19.3	19.0	16.3
Other Loans	7.4	7.4	7.5	7.7	7.9	7.6	4.7
Trade & Taxes Payable	3.8	3.8	3.8	3.9	3.2	3.4	1.7
Miscellaneous Liabilities	12.4	12.3	12.3	12.4	8.5	8.0	2.8

Source: Federal Reserve, Bureau of Economic Analysis



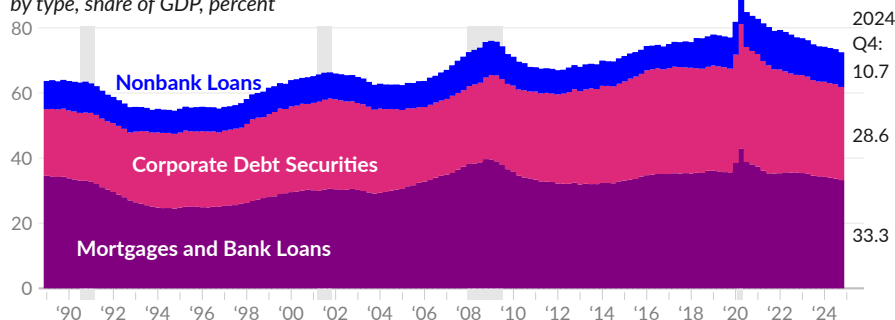
## Business Debt

Combining corporate and noncorporate business debt provides the aggregate amount of nonfinancial business debt, which we can compare to the size of the overall economy. The debt to GDP ratio provides an additional measure of business sector leverage.

As of 2024 Q4, **nonfinancial business debt**—the debt security and loan liabilities of nonfinancial private businesses—both corporate and non-corporate—totals \$21.6 trillion, with \$13.7 trillion (63.8 percent) held by corporate businesses. Over the past five years, nonfinancial business debt has fallen relative to overall economic activity. As a share of GDP, nonfinancial business debt fell by 4.5 percentage points to 72.5 percent in 2024 Q4 from 77.0 percent in 2019 Q4. The vast majority of the increase, 1.1 percentage points, comes from nonbank loans (see ■).

### Nonfinancial Business Debt

by type, share of GDP, percent



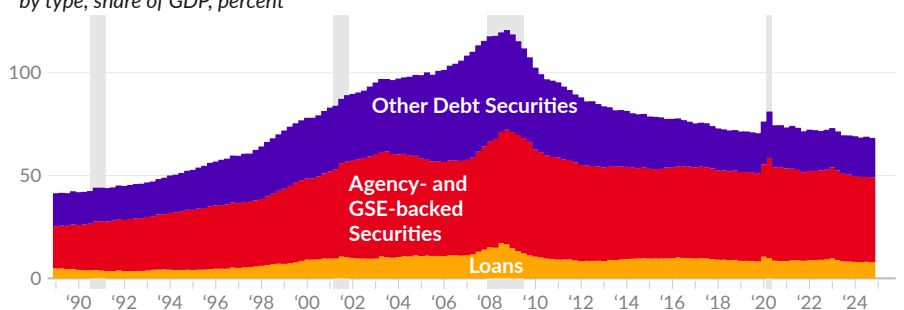
Source: Federal Reserve, Bureau of Economic Analysis

The debt of the domestic private financial sector includes agency and government-sponsored enterprise (GSE) backed securities (see ■), corporate and foreign bonds, loans (see ■), and open market paper. The long-term increase in financial sector debt reflects the emergence and growth of various asset-backed securities. In addition to home mortgage-backed securities, the domestic financial sector issues debt securities based on commercial mortgages, auto loans, credit cards, student debt, and more.

Domestic financial sector debt has fallen as a share of GDP to 68.3 percent in 2024 Q4 from a housing bubble peak of 120.8 percent in 2008 Q4.

### Financial Sector Debt

by type, share of GDP, percent



Source: Federal Reserve, Bureau of Economic Analysis

## Business Assets

Combined **assets of private nonfinancial businesses** are valued at \$90.1 trillion in the fourth quarter of 2024, which is 303.1 percent of GDP. These include financial and nonfinancial assets. Financial assets include cash and deposits, equity in other businesses, trade receivables, and other financial assets, and total \$40.7 trillion. Nonfinancial, or tangible, assets include real estate, equipment, inventories, and intellectual property products, and total \$49.4 trillion.

Nonfinancial corporations have assets valued at \$61.9 trillion, or 208.3 percent of GDP. These include nonfinancial assets (see ■) valued at 102.4 percent of GDP and financial assets (see ■) valued at 105.8 percent, as of 2024 Q4. Noncorporate business assets are valued at \$28.2 trillion, equivalent to 94.8 percent of GDP. Tangible assets (see ■) are equivalent to 63.8 percent of GDP, and include \$10.3 trillion in rental housing. Financial assets for the sector (see ■) total 31.0 percent of GDP.

### Business Assets

by nonfinancial business type and asset type, share of GDP, percent



share of GDP, percent

	2024 Q4	'24 Q3	'24 Q2	'23 Q4	'19 Q4	2010	1989
Corporate Total	208.3	211.0	210.3	213.6	222.6	191.5	185.8
Nonfinancial Assets (■)	102.4	102.9	103.1	106.0	112.9	97.9	114.8
Real Estate	52.9	53.5	53.7	56.6	63.7	49.5	61.7
Equipment	23.1	23.2	23.2	23.2	24.3	25.1	29.9
IP Products	14.6	14.4	14.3	14.0	12.9	11.4	7.7
Inventories	11.8	11.9	11.9	12.2	12.1	11.9	15.4
Financial Assets (■)	105.8	108.0	107.3	107.6	109.7	93.7	71.0
Noncorporate Total	94.8	95.5	96.0	98.4	94.3	79.9	77.9
Nonfinancial Assets (■)	63.8	64.4	64.7	66.7	67.1	58.9	71.0
Real Estate	57.4	57.9	58.1	60.0	60.3	51.6	62.0
Residential	34.6	35.0	35.2	36.2	34.9	29.7	34.9
Equipment	3.7	3.8	3.9	4.0	4.1	4.5	5.8
IP Products	1.6	1.6	1.6	1.6	1.5	1.3	0.7
Inventories	1.1	1.1	1.1	1.1	1.2	1.5	2.5
Financial Assets (■)	31.0	31.1	31.3	31.7	27.2	20.9	6.9

Source: Federal Reserve, Bureau of Economic Analysis

Notes: Includes only nonfinancial businesses. Tangible assets are market values or current replacement values.

## Industrial Production

The Federal Reserve industrial production index [measures](#) the real output of the industrial sector, which includes manufacturing, mining, and electric and gas utilities.

**Industrial production** increased 1.5 percent over the year ending April 2025, following an increase of 1.3 percent in March. The manufacturing-only index increased 1.2 percent over the year ending April, and contributed 0.9 percentage point to the growth of the total index. Mining contributed 0.1 percentage point, and utilities contributed 0.5 percentage point.

By market group, finished consumer goods did not contribute to one-year industrial production growth in April. Business equipment contributed 0.3 percentage point, nonindustrial supplies contributed 0.4 percentage point, and materials contributed 0.9 percentage point.

**Industrial Production**  
index, 2012=100



Source: Federal Reserve



## Industrial Production Growth

one-year growth,  
seasonally-adjusted

contribution to total

rate, percent

	Apr '25	Mar '25	Feb '25	Apr '24	Apr '25	Mar '25	Feb '25	Apr '24
Total Index	1.5	1.3	1.4	-0.8	1.5	1.3	1.4	-0.8
Manufacturing	0.9	0.7	0.5	-0.8	1.2	0.9	0.7	-1.1
■ Durable Manufacturing	0.4	0.3	0.1	-0.3	1.1	0.7	0.2	-0.8
Motor Vehicles & Parts	-0.2	-0.2	-0.2	-0.1	-3.9	-4.1	-3.4	-1.1
■ Nondurable Manufacturing	0.5	0.5	0.5	-0.4	1.5	1.3	1.5	-1.2
■ Mining	0.1	0.1	-0.1	-0.1	0.7	0.9	-0.8	-0.5
■ Utilities	0.5	0.5	1.0	0.1	4.3	4.6	8.9	0.6
■ Consumer Goods	-0.0	0.1	0.2	-0.4	-0.2	0.3	0.8	-1.3
Consumer Durables	-0.2	-0.3	-0.3	-0.1	-4.1	-4.6	-4.6	-1.1
Automotive Products	-0.2	-0.2	-0.2	-0.1	-5.4	-6.0	-5.7	-2.2
Consumer Nondurables	0.2	0.4	0.5	-0.3	1.0	1.7	2.4	-1.3
Foods & Tobacco	-0.1	-0.0	-0.0	-0.3	-0.8	-0.3	-0.5	-3.0
Chemical Products	0.3	0.3	0.3	0.1	5.7	5.4	4.9	1.4
Consumer Energy Products	0.0	0.2	0.4	-0.0	0.9	3.0	7.1	-0.3
■ Business Equipment & Supplies	0.6	0.6	0.3	-0.2	2.3	2.0	1.1	-0.7
Equipment	0.3	0.2	0.0	-0.1	2.3	1.6	0.3	-0.9
Industrial Equipment	0.1	0.0	-0.0	-0.2	3.3	0.1	-0.5	-5.0
Nonindustrial Supplies	0.4	0.4	0.3	-0.1	2.3	2.3	1.7	-0.6
Construction Supplies	0.2	0.1	0.1	-0.1	3.2	2.5	1.3	-1.7
Business Supplies	0.2	0.2	0.2	-0.0	1.8	2.2	1.9	-0.0
Materials	0.9	0.7	0.9	-0.3	2.0	1.6	1.9	-0.6
Consumer Parts	-0.1	-0.1	-0.1	-0.0	-4.9	-4.2	-3.7	-0.1
Equipment Parts	0.3	0.3	0.3	-0.0	6.1	6.7	7.1	-0.2
Chemical Materials	0.4	0.3	0.4	-0.2	7.0	6.2	6.3	-3.3
■ Energy Materials	0.3	0.3	0.4	0.1	1.8	1.4	2.2	0.5

Source: Federal Reserve



Over the past 30 years, economic conditions and shifts in how production is organized have affected industrial growth. Much of the growth over the period is attributed to the production of materials, such as parts, chemicals, and energy, and to the production of business equipment and supplies. In contrast, there has been virtually no growth in domestic production of finished consumer goods, particularly from 2000 to 2020.

While the manufacturing industry dominated industrial growth in the 1990s, mining and utilities have played a relatively larger role since 2010. Manufacturing growth was relatively weak from 2013 to 2020, but increased starting in 2021.

Contributions to Industrial Production Growth

percentage point contribution to one-year growth, quarterly average



Source: Federal Reserve



Looking more closely at recent industrial production growth, the latest one-year growth rate, covering April 2025, is slightly above the five-year average, and in line with the March growth rate.

By market group, the latest growth is relatively broad-based. The main contribution is an increase in business equipment and non-industrial supplies and non-energy materials. By industry group, the latest growth is broad-based, with categories contributing relatively evenly.

Recent Data in Detail



Source: Federal Reserve



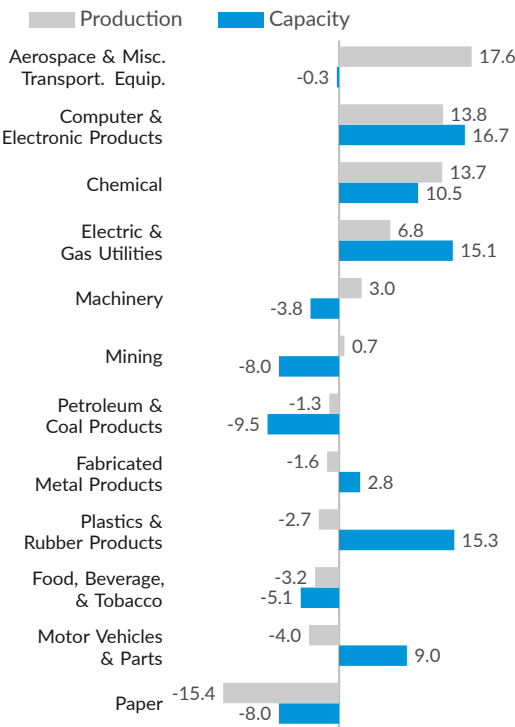
As of April 2025, of a subset of 12 industries that contribute the majority of industrial production, six increased **production** since February 2020, and six decreased production (see ■ ).

Since February 2020, aerospace and miscellaneous transportation equipment production increased by 17.6 percent, paper production decreased by 15.4 percent, production of computer and electronic products increased by 13.8 percent, and chemical production increased by 13.7 percent.

Since February 2020, six of the 12 industries increased **capacity**, six decreased capacity, and none were unchanged (see ■ ). Production capacity for computer and electronic products increased by 16.7 percent, production capacity for plastics and rubber products increased by 15.3 percent, and electric and gas utilities capacity increased by 15.1 percent.

Industrial Production and Capacity

As of April 2025, percent change since February 2020



Source: Federal Reserve



Capacity Utilization

The Federal Reserve also [report](#) the US industrial capacity, based on estimates of the maximum sustainable output. Industrial production as a share of total capacity is called **capacity utilization**. From the 1990s to the 2010s, capacity utilization fell substantially, as many domestic industrial facilities reduced output or closed.

In April 2025, the US is utilizing 77.7 percent of total industrial capacity (see —), and 76.8 percent of manufacturing capacity (see —). In 2019, the total capacity utilization rate averaged 78.6 percent, and the manufacturing capacity utilization rate averaged 77.2 percent. Total capacity utilization has decreased by 0.9 percentage point since 2019, and decreased by six percentage points since 1989.

Capacity Utilization

industrial production as a share of total capacity, percent, seasonally adjusted



Source: Federal Reserve

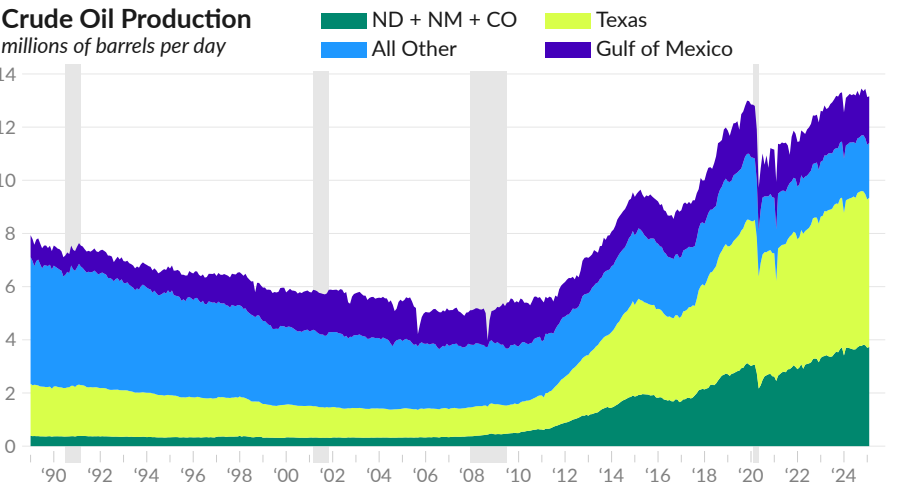


Energy Production and Use

This subsection looks at the energy sector, and covers oil production and electricity generation and sales.

Crude Oil Production

The Energy Information Administration [report](#) a large increase in US **crude oil production**, from around five million barrels per day in 2007 to nearly 13 million barrels per day at the end of 2019. Much of the increase comes from Texas, New Mexico, North Dakota, and Colorado. During February 2025, the US produced 13.2 million barrels per day, compared to 13.1 million barrels per day in February 2024.

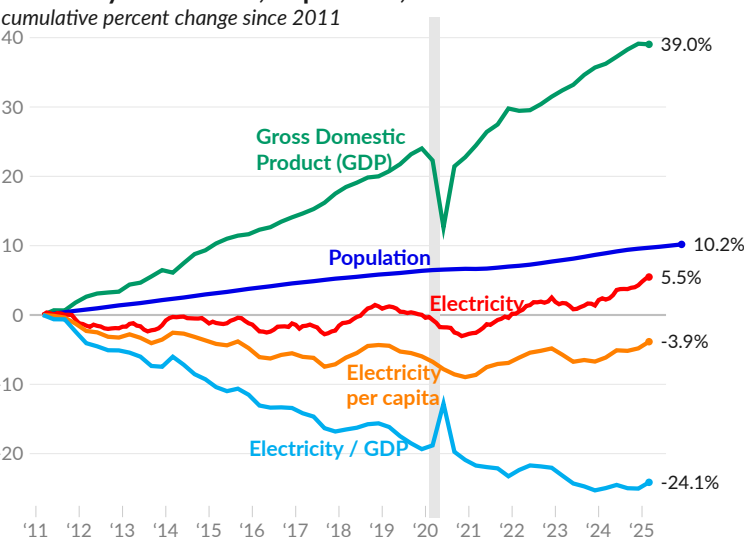


Source: Energy Information Administration

Electricity Production

Since 2011, annualized total US **electricity generation** has increased 5.5 percent. Over the same period, the US population has increased by 10.2 percent (see [—](#)) and real GDP has increased by 39.0 percent (see [—](#)). As a result, the electricity required to produce a unit of real GDP decreased by 24.1 percent (see [—](#)).

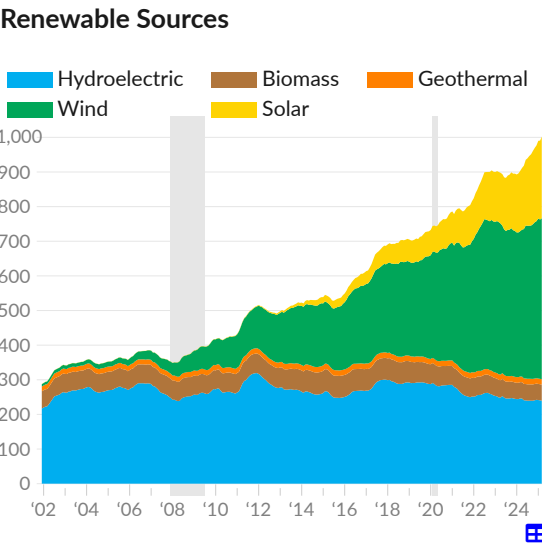
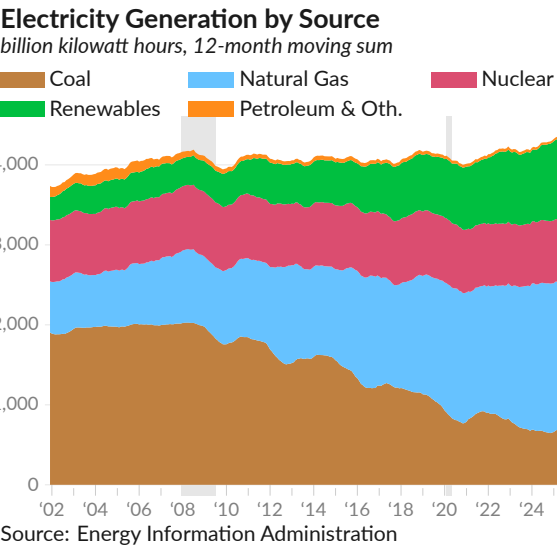
Electricity Generation, Population, and Production



Source: EIA, BEA

Electricity Production by Source

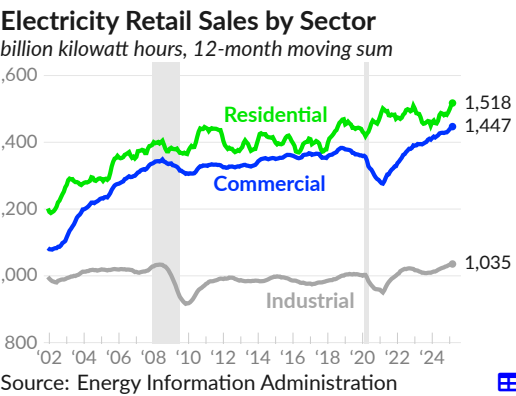
During the 12 months ending March 2025, the US generated 4,353 billion kilowatt hours of electricity. Of this, 1,851 billion kilowatt hours were generated using natural gas (see [■](#)), 689 billion kilowatt hours were generated from coal (see [■](#)), 781 billion from nuclear (see [■](#)), and 1,002 billion from renewable sources (see [■](#)).



Among renewable energy sources, over the year ending March 2025, 239 billion kilowatt hours of electricity were generated with conventional hydroelectric (see [■](#)), 46 billion kilowatt hours were generated from biomass (see [■](#)), 16 billion were generated from geothermal (see [■](#)), 465 billion from wind (see [■](#)), and 235 billion from solar (see [■](#)).

Electricity Sales by Sector

The Energy Information Administration [report](#) the **retail sales of electricity** to each major sector. Electricity sales to the commercial and industrial sectors fell during the pandemic, and were partially offset by increased electricity sales to the residential sector.



Over the year ending March 2025, retail sales of electricity to the residential sector total 1,518 billion kilowatt hours, compared to 1,440 billion during 2019 (see [—](#)). Commercial sector electricity sales total 1,447 billion kilowatt hours over the year ending March 2025, and 1,361 billion in 2019 (see [—](#)). Industrial sector sales total 1,035 billion kilowatt hours in the latest 12 months of data and 1,002 billion in 2019 (see [—](#)).

## Retail Sales

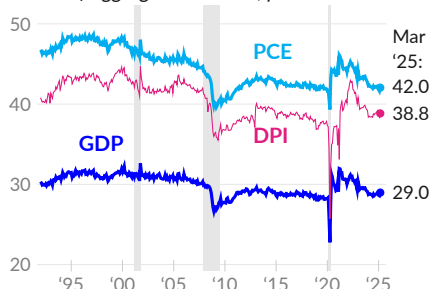
The Census Bureau [reports](#) the monthly sales of retail businesses, restaurants, and bars. These retail trade figures can be a useful economic indicator. Retail trade includes brick and mortar stores as well as e-commerce and other nonstore sales to the general public.

In March 2025, **retail and food services sales** total \$724.1 billion. On an annualized basis, this is equivalent to 38.8 percent of disposable (after-tax) income (see —), 42.0 percent of consumer spending (see —), and 29.0 percent of GDP (see —). During the first two months of the US COVID-19 pandemic, retail sales were a smaller portion of overall economic activity, as many businesses were closed. Since the initial reopening, retail sales have comprised a larger share of economic activity, in part as other activities, like transportation, have recovered less.

Retail and food service sales, **adjusted for population growth and inflation**, provide additional context on economic developments. Per capita retail and food services sales, adjusted by the personal consumption expenditure (PCE) price index, are \$2,118 during March 2025 (see —). Prior to the pandemic, in 2019, real per capita retail and food service sales averaged \$1,857 per month. Excluding automotive and gasoline sales, per capita sales were \$1,553 in March 2025 and \$1,327 per month in 2019, after adjusting for inflation (see —).

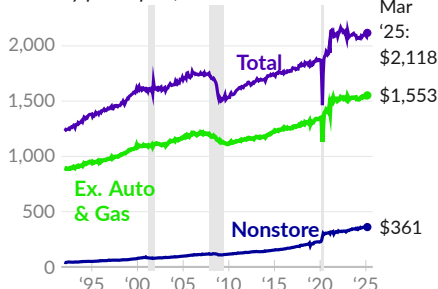
### Retail and Food Services Sales

share of aggregate measure, percent



Source: Census Bureau, Bureau of Economic Analysis

monthly per capita, March 2025 dollars\*



\*Adjusted by PCE price index

Changes in retail and food services sales can indicate shifts in consumer behavior. One-year retail and food services **sales growth** is 5.2 percent in April 2025, and averages 4.8 percent over past three months (see —). Nonstore sales, for example from online retailers, have increased at a faster rate than other sales, since 1992. Over the past three months, one-year nonstore sales growth averages 7.9 percent (see —).

### Retail and Food Services Sales Growth

one-year growth, percent, 3-month moving average



Source: Census Bureau



Since 1992, the share of after-tax income spent at different **kinds of businesses** has diverged wildly. In large part, this is due to the growth of e-commerce, with online sales replacing brick and mortar sales. However, there have also been shifts in other consumer preferences and relative prices.

Nonstore sales were 1.4 percent of after-tax income in January 1992 and 6.6 percent in March 2025, a shift that is equivalent to \$1,169 billion per year. Since 1992, sales as a share of after-tax income has decreased in food and beverage stores (-3.1 percentage points), clothing and accessories stores (-1.0 percentage point), and general merchandise stores (-0.9 percentage point).

Some sales categories were boosted by the housing bubble during the 2000s and its associated wealth effects, then fell sharply following the collapse of the bubble. Building and garden equipment, furniture and home furnishings stores, and motor vehicle sales all claimed a larger share of income during the 1990s and 2000s than during the 2010s. Meanwhile, food service and drinking places and health and personal care stores received a relatively stable share of income from 2000 until the COVID-19 pandemic, which hit restaurants and bars particularly hard.

Lastly, some categories are more affected by changes in relative prices. Sales at gasoline stations, for example, move with gasoline prices. Likewise, an increase in building material prices during the pandemic partially boosted the share of income spent at building and garden equipment stores.

### Retail Sales by Kind of Business

share of disposable personal income, percent, January 1992 to March 2025



Source: Census Bureau, Bureau of Economic Analysis

# Government

Public institutions are collectively referred to as the *public-sector* or the *government*. In the United States, the government has the authority to spend, tax, and create money, as well as to regulate economic and financial activity. The government also enforces and determines the ownership of property. These activities are all extremely important to production and distribution in the economy.

This chartbook section covers government contributions to current economic activity, receipts and expenditures, assets and liabilities, and government jobs.

## Current Economic Activity

There are multiple ways to interpret the government's direct contribution to current economic activity. Methods include: 1) government current receipts and expenditures; 2) the gross output of the sector minus intermediate inputs used in production (value added); 3) government income payments to people and taxes and social insurance contributions; or 4) the sum of government current expenditures on final goods and services, and investment.

As an overview of the consolidated government's effect on GDP, government receipts are equivalent to 27.5 percent of GDP in 2024 Q4, compared to 27.2 percent in 2019 Q4. The vast majority of these receipts are taxes, including social insurance contributions.

Government spending is equivalent to 34 percent of GDP in the latest data and 33 percent in 2019. This includes consumption expenditures, which are the government's operating costs, transfers and subsidies, and interest payments. These are covered in more detail in the following subsections.

### Government Receipts and Spending

consolidated government, share of GDP, percent



Source: Bureau of Economic Analysis

### Value Added

The value added in production by the government sector is composed primarily of the compensation of government employees. These employees provide all types of services: education, health care, transportation, utilities, sanitation, etc. Government value added also includes, as a residual, the government's [gross operating surplus](#), much of which goes toward replacing and maintaining government fixed assets.

### Value Added in Domestic Production

per capita, thousands of 2024 Q4 dollars



Source: Bureau of Economic Analysis

In the fourth quarter of 2024, the federal government value added in domestic production is \$1,073 billion, equivalent to \$3,145 per capita (see —). In 2019 Q4, federal government added \$3,106 in value to domestic production, per capita, after adjusting for inflation.

State and local governments added \$2,290 billion in production value in 2024 Q4 and \$1,851 billion in 2019 Q4, equivalent after inflation to \$6,711 and \$6,556 per capita, respectively (see —).

## Income Approach

Payments from the government to people include both the wages and salaries of government workers and transfer payments, also referred to as government social benefits or welfare.

Over the past thirty years, total spending on government social benefits has mostly kept pace with consumer spending, while tax collection lagged behind income growth. Increased social benefits payments on a per capita basis reflect expanded access to health insurance, as well as a larger share of the population receiving social security benefits. During the COVID-19 pandemic, the federal government expanded social benefits, reducing poverty rates to all-time lows in 2021.

### Personal Income and Outlays

per capita, thousands of 2025 Q1 dollars



In 2025 Q1, government worker wages and salaries were equivalent to \$5,621 per capita, following a price-adjusted \$5,399 in 2019 Q4 (see —). Net government benefits were equivalent to \$13,527 per capita in 2025 Q1, compared to \$11,372 per capita in 2019 Q4 (see —). In 1989 Q1, net benefits were equivalent to \$4,590 per person.

Personal current taxes and social insurance contributions total \$14,955 per capita in 2025 Q1, \$13,368 in 2019 Q4, and \$8,409 in 1989 (see —).

## Consumption and Investment

Another approach to calculating the government sector effect on current economic activity is to add up spending on final goods and services. Government consumption and investment tends to be more stable than consumer spending or private investment, and thus tends to rise as a share of economic activity during recessions. This category does not include government transfer payments, which mostly become consumer spending.

### Consumption and Investment

share of GDP, percent



In 2025 Q1, federal non-defense spending and investment was \$825.0 billion, equivalent to 2.8 percent of GDP (see —), compared to 2.6 percent of GDP in 2019 Q4. Federal spending on national defense was equivalent to 3.7 percent of GDP in the latest quarter and 3.9 percent in 2019 Q4 (see —). National defense spending was 6.9 percent of GDP in 1989 Q1.

In 2025 Q1, state and local government spending and investment was equivalent to 10.7 percent of GDP, compared to 11.1 percent in 2019 Q4 (see —).

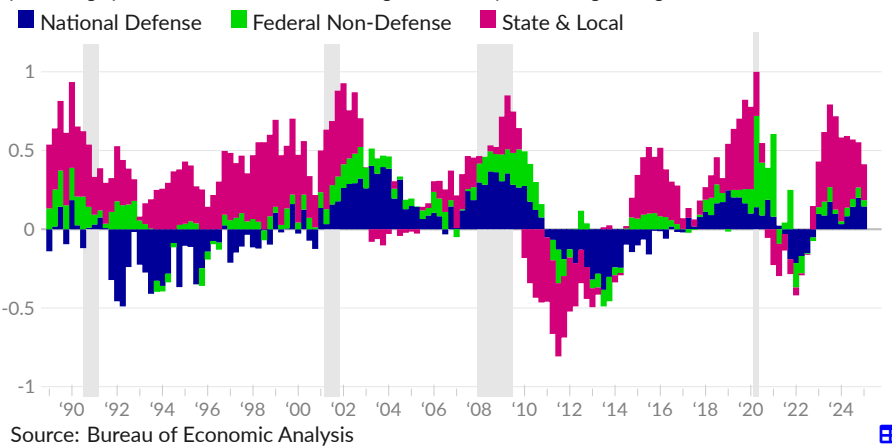
## Contribution to Growth

Government consumption and investment directly affect economic growth in the short-term. In the first quarter of 2025, government consumption spending and investment subtracted 0.25 percentage point from the real GDP growth rate of -0.3 percent. Over the last four quarters, government consumption and investment contributed 0.41 percentage point to economic growth, on average. Since 1989, the average contribution has been 0.26 percentage points.

Over the four quarters ending 2025 Q1, by level of government, national defense contributed 0.14 percentage point (see ■), federal non-defense contributed 0.04 percentage point (see ■), and state and local government contributed 0.23 percentage point (see ■).

### Government Consumption and Investment

percentage point contribution to real GDP growth, one-year moving average



### Government Consumption and Investment

percentage point contribution to real GDP growth

moving averages

	2025 Q1	'24 Q4	'24 Q3	'24 Q1	'23 Q1	1- year	10- year	30- year
Consolidated Government Total	-0.25	0.52	0.86	0.30	0.84	0.41	0.35	0.27
Federal Total	-0.33	0.25	0.55	-0.02	0.28	0.18	0.13	0.11
■ National Defense	-0.31	0.18	0.48	-0.09	0.17	0.15	0.06	0.05
Consumption Expenditures	-0.33	0.15	0.32	-0.01	0.18	0.06	0.03	0.03
Gross Investment	0.02	0.03	0.16	-0.08	-0.01	0.09	0.03	0.02
■ Federal Non-Defense	-0.03	0.08	0.07	0.07	0.11	0.04	0.08	0.06
Consumption Expenditures	-0.06	0.06	0.06	0.09	0.03	0.02	0.04	0.04
Gross Investment	0.03	0.02	0.01	-0.02	0.07	0.02	0.04	0.02
■ State & Local Total	0.08	0.27	0.31	0.32	0.56	0.23	0.22	0.15
Consumption Expenditures	0.15	0.18	0.22	0.18	0.44	0.18	0.17	0.12
Gross Investment	-0.07	0.09	0.09	0.14	0.12	0.05	0.05	0.03

Source: Bureau of Economic Analysis

## Government Receipts and Expenditures

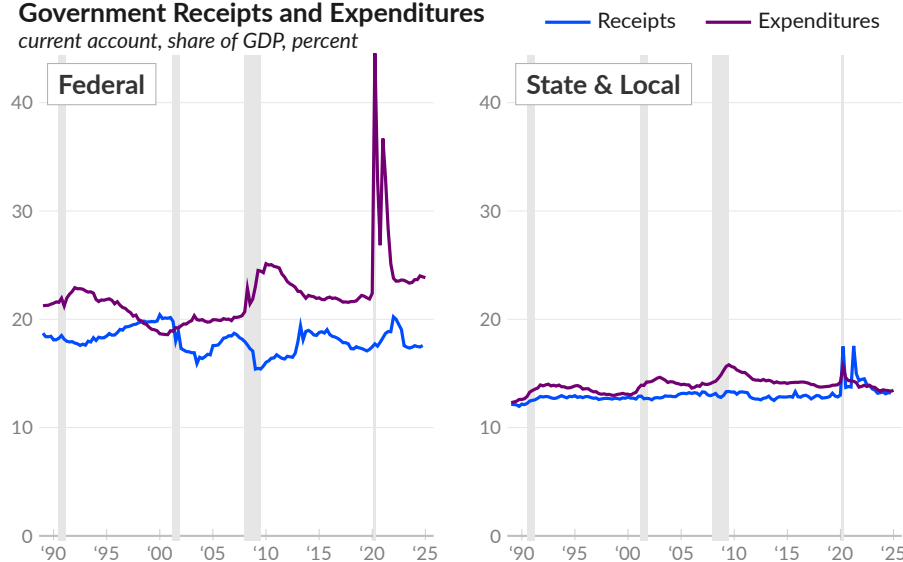
Government current expenditures include consumption and investment as well as transfers such as government social benefits to persons. Government spending provides services and income to people. Government current receipts come primarily from taxes. When government expenditures exceed receipts, it is referred to as a *government deficit*, and corresponds to a private sector surplus. A large government deficit, relative to GDP, means the government is increasing current household income and corporate profits.

Federal government expenditures total \$7.1 trillion, or 23.8 percent of GDP, in 2025 Q1. BEA has not yet released receipts data for 2025 Q1, however, in 2024 Q4, federal government receipts total \$5.2 trillion, or 17.6 percent of GDP. In 2024 Q4, the federal government deficit was \$1,886 billion or 6.3 percent of GDP.

Combined state and local government expenditures total \$4.0 trillion, or 13.4 percent of GDP, in 2025 Q1. BEA has not yet released receipts data for 2025 Q1, however, in 2024 Q4, combined state and local government receipts total \$3.9 trillion, or 13.2 percent of GDP. In 2024 Q4, the combined state and local government deficit was \$46 billion or 0.2 percent of GDP.

### Government Receipts and Expenditures

current account, share of GDP, percent



Source: Bureau of Economic Analysis



### Government Receipts and Expenditures

percent of GDP

		'25	'24	'24	'24	'23	'20	moving average		
		Q1	Q4	Q3	Q1	Q1	Q1	4-	10-	30-
								year	year	year
<b>Federal Government</b>										
Receipts	-	17.6	17.4	17.6	17.6	17.4	18.3	18.0	18.0	
Expenditures	23.8	23.9	24.0	23.7	23.6	22.4	24.6	24.3	22.2	
Surplus (+) / Deficit (-)	-	-6.3	-6.6	-6.1	-6.0	-4.9	-6.3	-6.3	-4.1	
<b>State &amp; Local Government</b>										
Receipts	-	13.2	13.2	13.3	13.6	13.0	14.0	13.5	13.1	
Expenditures	13.4	13.4	13.4	13.5	13.7	14.2	13.7	13.9	14.0	
Surplus (+) / Deficit (-)	-	-0.2	-0.2	-0.2	-0.2	-1.2	0.3	-0.5	-0.9	

Source: Bureau of Economic Analysis



## Government Receipts

The combined revenue of the federal, state, and local governments in the US is reported as government current receipts in the national accounts. This subsection describes government current receipts by level of government and by type.

At an aggregate level, the vast majority of government receipts are tax receipts and contributions for social insurance programs. Government receipts total \$8.2 trillion in 2024 Q4, representing 27.5 percent of GDP (see —). Taxes and social insurance contributions comprise 94.9 percent of receipts and are equivalent to 26.1 percent of GDP in 2024 Q4 (see —).

### Government Current Receipts

consolidated government, share of GDP, percent



Source: Bureau of Economic Analysis

### Federal Government Receipts

Taxes and social insurance contributions are the main federal government receipts, and total \$1.9 trillion in 2025 Q1, equivalent to 17 percent of GDP. These receipts include personal current taxes, primarily individual income taxes, taxes on corporate income, and other taxes such as the federal excise tax on gasoline. Tax receipts are grouped with social insurance contributions, such as payroll taxes for Social Security and Medicare.

### Federal Gov. Current Tax Receipts

share of GDP, percent



Source: Bureau of Economic Analysis

As of 2025 Q1, federal personal current tax receipts are equivalent to 8.2 percent of GDP (see —). Some volatility in these receipts comes from swings in yearly capital gains. Since 1989, these tax receipts average 7.9 percent of GDP.

Social insurance contributions are relatively stable over time and comprise 6.4 percent of GDP in 2025 Q1 (see —), compared to an average of 6.6 percent since 1989.

Corporate income tax receipts are typically two percent of GDP during economic expansions, but were cut to one percent in 2019. In 2025 Q1, these receipts are equivalent to 1.7 percent of GDP (see —).

Other tax receipts, including excise taxes and customs duties total 0.7 percent of GDP in the latest data (see —).

The United States Treasury [report](#) federal government current receipts and outlays, by type, in the Monthly Treasury Statement. To smooth seasonal patterns in tax payments, the receipts from the previous 12 months are combined, in each month, below.

Federal Government Receipts

trillions of USD, one-year moving sum



Source: Treasury

Over the 12 months ending April 2025, **federal government receipts** total \$5.1 trillion, compared to \$4.7 trillion one year prior, in April 2024.

Over the past 12 months, 50 percent of receipts, totalling \$2.5 trillion, are from individual income taxes (see —). The remaining receipts (see —) are largely social insurance contributions (\$1.7 trillion) and corporate income taxes (\$0.5 trillion).

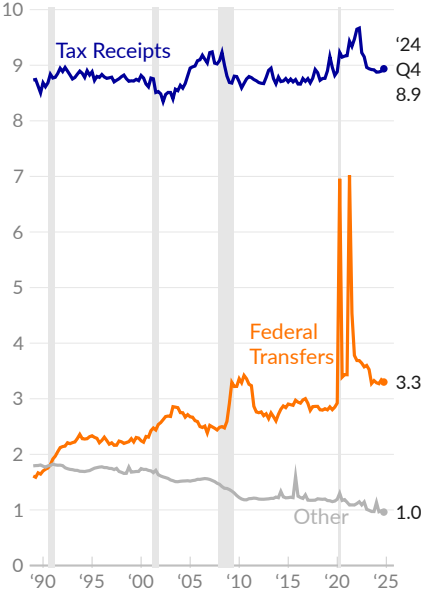
State and Local Government Receipts

State and local government current receipts are a combination of taxes, transfers from the federal government, and other receipts, such as fines and fees. In 2024 Q4, combined state and local government tax receipts total 8.9 percent of GDP (see —), following 8.9 percent of GDP one year prior. Since 2019, these tax receipts are unchanged as a share of GDP. State and local government income tax receipts fell by 0.1 percent of GDP over the same period.

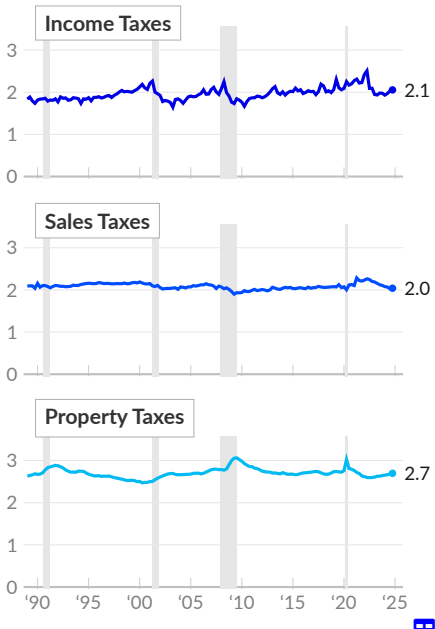
Federal government transfers to state and local governments total 3.3 percent of GDP in 2024 Q4 (see —), and 3.3 percent one year prior. These transfers peaked during COVID-19 relief efforts, but have been climbing over time, from 1.6 percent of GDP in 1989. Other receipts are equivalent to one percent of GDP in 2024 Q4 (see —).

State & Local Government Receipts

share of GDP, percent



Source: Bureau of Economic Analysis

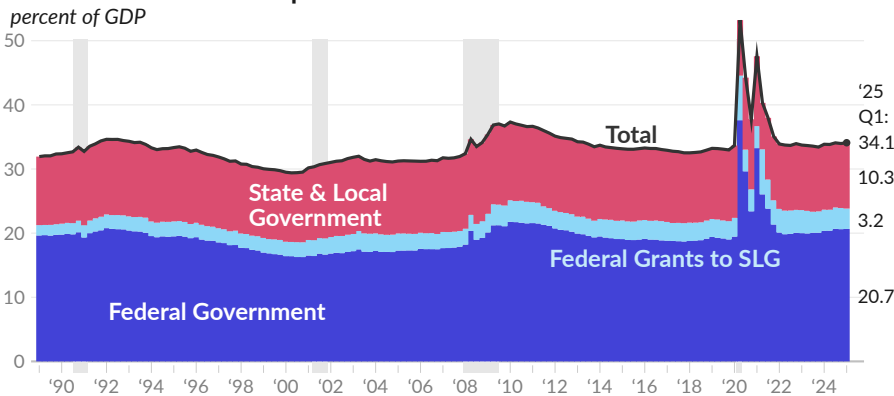


## Government Expenditures

Consolidated government current expenditures combine federal, state, and local levels of government, and include consumption expenditures, government social benefits, interest payments, subsidies, and other transfers. Federal government grants to state and local governments are separated to avoid double counting.

As of 2025 Q1, government current expenditures total \$10.2 trillion, which is 34.1 percent of GDP (see —). One year prior, in 2024 Q1, government current expenditures total 33.9 percent of GDP. Government spending peaked during the COVID-19 pandemic, averaging 41.2 percent of GDP from 2020 to 2021. Since 1989, government spending averages 33.4 percent of GDP.

### Government Current Expenditures



By level of government, federal current expenditures are equivalent to 20.7 percent of GDP in 2025 Q1, and 20.4 percent in 2024 Q1 (see ■). Federal government transfers to state and local governments comprise 3.2 percent of GDP in the latest data (see ■). State and local government current expenditures, excluding transfers from the federal government, are equivalent to 10.3 percent of GDP in 2025 Q1 (see ■).

By category, consumption expenditures represent 13.4 percent of GDP in 2025 Q1, and 13.4 percent of GDP one year prior. Over the past 30 years, consumption expenditures average 14.7 percent of GDP. Current transfer payments, which are largely government social benefits, total 15.7 percent of GDP in 2025 Q1, compared to 15.4 percent one year prior, and a long-term average of 13.7 percent.

Consolidated government interest payments are 4.5 percent of GDP in the latest data, compared to 4.7 percent one year prior. Interest payments comprise 4.4 percent over the past 30 years, on average. Government subsidies to businesses total 0.4 percent of GDP in 2025 Q1 and 0.3 percent in 2024 Q1.

### Government Current Expenditures

share of GDP, percent

	2025 Q1	'24 Q4	'24 Q3	'24 Q1	'23 Q1	moving averages		
						1- year	10- year	30- year
Current Expenditures (—)	34.1	34.0	34.1	33.9	33.7	34.0	34.9	33.3
Consumption Expenditures	13.4	13.4	13.4	13.4	13.6	13.4	14.0	14.7
Current Transfer Payments	15.7	15.6	15.6	15.4	15.6	15.6	16.0	13.7
Interest Payments	4.5	4.6	4.7	4.7	4.2	4.6	4.0	4.3
Subsidies	0.4	0.3	0.3	0.3	0.4	0.3	0.9	0.6

Source: Bureau of Economic Analysis



## Composition of Federal Government Spending

Over the long-term, there have been important shifts in the **composition of federal spending**. The ways federal spending varies from these long-term trends, in the short-term, are also important.

Over the long-term, Office of Management and Budget (OMB) data [show](#) national defense spending fell to 15.2 percent of outlays in 2019 from 26.6 percent in 1989 (see ■). Discretionary non-defense spending maintained a relative stable share of spending over the period (see ■). Net interest expense, the cost of federal borrowing, fell along with long-term interest rates, to 8.4 percent of outlays in 2019 from 14.8 percent in 1989 (see ■).

Offsetting the reduction in spending on interest and national defense, Medicare and Social Security now make up a larger share of federal spending, as a larger share of people are retirement age. Likewise, spending on the social safety net (means-tested benefits and Medicaid) increased as employment-to-population ratios fell and Medicaid was expanded. Medicare (see ■), Social Security (see ■), and the social safety net (see ■) combine to comprise 54.8 percent of federal spending in 2019, compared to 34.7 percent in 1989.

## Composition of Federal Government Outlays

*share of total, percent*

Since 1990, by Budget Enforcement Act Type



Source: Office of Management and Budget

Recent Monthly, by Type\*



Source: Treasury

\* The two charts use different data sources with different categories and therefore do not match.

The Treasury Bureau of Fiscal Service [report](#) federal outlays by type on a monthly basis (see right chart above). The categories used in the Treasury monthly report are not the same as those used in the OMB data, so the two charts above should not be compared. The higher-frequency Treasury data, however, are helpful for showing short-term changes, and **recent changes in the composition of federal spending**.

Income security, which includes economic impact payments, the child tax credit, unemployment compensation, food and nutrition assistance, federal employee retirement and disability, and housing assistance, was 9.9 percent of federal spending over the 12 months ending April 2025 (see ■). At its peak, over the 12 months ending March 2021, income security comprised 26.0 percent of federal spending. Pre-pandemic, in 2019, the category comprised 11.5 percent.

The category labeled “other” in the above-right chart includes several subcategories worth examining. The category increased to 15.3 percent of federal spending during the 12 months ending April 2025, from 24.2 percent during the 12 months ending March 2021 (see ■ ). Prior to the pandemic, in 2019, the category was 12.8 percent of spending.

Within the “other” category, the biggest changes during the pandemic came from business and housing subsidies (commerce and housing credit) and transfers to state and local governments (general government). The category is described in the following table.

### Composition of Federal Government Outlays

share of total, percent

	Apr 2025	Mar 2025	Feb 2025	Mar 2021	2019	2017
■ Income Security	9.9	9.9	10.2	26.0	11.8	12.8
■ Health	13.4	13.3	13.3	10.9	12.8	13.4
■ Medicare	13.5	13.5	14.0	10.4	14.7	15.0
■ Social Security	21.6	21.5	21.1	14.7	23.6	23.8
■ National Defense	12.9	12.8	12.8	9.7	16.0	15.2
■ Net Interest	13.4	13.3	13.1	4.1	8.3	6.6
■ Other:	15.3	15.6	15.6	24.2	12.8	13.1
Administration of Justice	1.2	1.2	1.2	1.0	1.5	1.5
Agriculture	0.6	0.6	0.5	0.7	0.8	0.5
Commerce & Housing Credit	-0.5	-0.5	-0.5	9.8	-0.5	-0.8
Community & Regional Development	1.5	1.5	1.5	1.3	0.7	0.7
Educ., Training, Employment, & Social Serv.	4.0	4.3	4.3	3.2	2.7	3.2
Energy	0.3	0.3	0.3	0.1	0.1	0.1
General Government	0.5	0.5	0.5	2.4	0.4	0.5
General Science, Space, & Technology	0.6	0.6	0.6	0.5	0.7	0.8
International Affairs	0.9	0.9	0.9	0.9	1.2	1.2
Natural Resources & Environment	1.2	1.2	1.2	0.5	0.8	0.9
Transportation	2.0	2.0	2.0	2.2	2.2	2.4
Undistributed Offsetting Receipts	-2.1	-2.1	-2.1	-1.5	-2.3	-2.3
Veterans Benefits & Services	5.0	5.1	5.2	3.0	4.5	4.4

Source: Treasury Bureau of Fiscal Service

## Major Federal Programs

The three main federal government social benefits in the US are [Social Security](#), [Medicare](#), and [Medicaid](#). Social Security provides income in old age and to disabled people. Medicare provides health insurance in old age, and Medicaid provides health insurance to many low income people.

As discussed in the household section, Social Security is by far the main anti-poverty program in the US, removing 27.6 million people from poverty in 2023. The number of Social Security beneficiaries has increased from 53.4 million in 2010, or 17.2 percent of the population, to 69.4 million in April 2025, equivalent to 20.3 percent of the population.

Medicare enrollment has grown from 15.3 percent of the population in 2010 to 20.1 percent. Total Medicare enrollment is 68.5 million in January 2025. Medicaid, which was expanded in 2014, and the Children's Health Insurance Program (CHIP), increased enrollment from 17.4 percent of the population in 2010 to 23.0 percent in December 2024. The total enrollment for Medicaid and CHIP is 78.5 million people.

### Enrollment / Beneficiaries

percent of population



Source: CMS, SSA, Census

### Expenditures

percent of GDP



Source: BEA

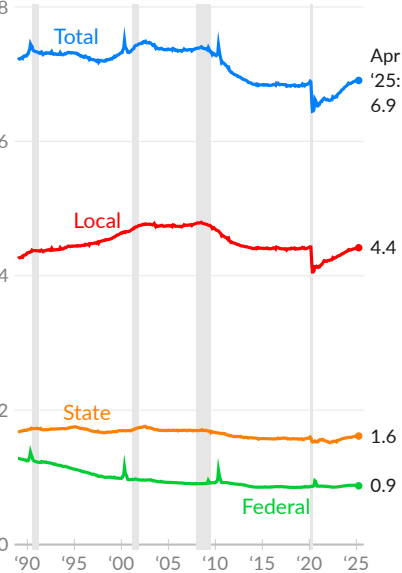
The overall increase in the cost of these programs since 2010 has been modest, despite the aging of the population and the major expansion of Medicaid. Payments to Social Security beneficiaries, combined with government spending on Medicare and Medicaid, comprise 10.7 percent of GDP in 2010. In the latest data, covering March 2025, these programs combined are equivalent to 12.2 percent of GDP. Social Security benefits are 5.1 percent of GDP, and government spending on Medicare and Medicaid are 3.9 percent and 3.2 percent of GDP, respectively.

# Government Jobs

Government workers provide public services to the population. As examples, federal government jobs include mail carriers and park rangers; state government jobs include teachers and social workers; and local governments employ firefighters, police, and utilities workers. Additionally, government employment is traditionally a relatively-stable source of aggregate household income. Government jobs are also disproportionately likely to provide health insurance and retirement benefits.

## Government Employment

government jobs per 100 people



Source: Bureau of Labor Statistics

In April 2025, there were 23.6 million government jobs, equivalent to 6.9 for every 100 people (see —). The previous year, in April 2024, there were 23.3 million government jobs, equivalent to 6.9 per 100 people. During the 1990s, there were 7.3 government jobs per 100 people. If the rate was the same today, there would be 1.3 million additional government jobs.

By level of government, there were 15.1 million local government jobs in April 2025, equivalent to 4.4 per 100 people (see —). In the same period, there were 5.5 million state government jobs (1.6 per 100 people, see —), and 3.0 million federal government jobs (0.9 per 100 people, see —).

Since 2019, the US has gained 886,000 total government jobs. During the same period, local governments added 463,000 jobs, state governments added 271,000 jobs, while the federal government added 152,000 jobs.

## Government Employment

in thousands of employees

	Apr '25	Mar '25	Apr '24	Apr '23	2019	2005
Government Total	23,612	23,602	23,290	22,634	22,612	21,804
Federal	2,989	2,998	2,995	2,905	2,831	2,732
Federal Hospitals	–	378	388	369	355	248
Department of Defense	–	558	557	548	544	487
US Postal Service	600	600	607	606	607	775
State Government	5,522	5,516	5,418	5,251	5,202	5,032
State Education	2,625	2,623	2,603	2,543	2,511	2,260
State Hospitals	–	480	454	430	387	350
General Admin.	–	1,930	1,888	1,817	1,824	1,862
Local Government	15,101	15,088	14,877	14,478	14,580	14,041
Local Education	8,223	8,216	8,120	7,939	8,003	7,856
Utilities	–	260	255	249	247	238
Transportation	–	305	299	289	290	252
Local Hospitals	–	724	698	684	682	654
General Admin.	–	4,466	4,403	4,262	4,255	4,013

Source: Bureau of Labor Statistics

## Government Balance Sheets

The scope of the public sector and how the government funds and organizes itself are reflected in **government balance sheets**. This subsection describes selected components of government balance sheets, at the federal level, and for combined state and local governments. First, the combined balance sheet of federal, state, and local governments is summarized. Next, public wealth is discussed, followed by liabilities, interest expense, and debt sustainability. The subsection also covers assets and net investment.

Assets other than public lands, liabilities, and net worth (public wealth), are the main components of government balance sheets, and are summarized below for the combined federal, state, and local governments. Since 1989, government assets have remained stable as a share of GDP, while liabilities have increased, driving down public wealth.

Combined government liabilities total \$41.6 trillion in 2024 Q4, equivalent to 139.9 percent of GDP (see —). Liabilities are 140.0 percent of GDP one year prior, in 2023 Q4, and 136.9 percent in 2019.

Government assets, excluding public land, are valued at \$31.1 trillion in 2024 Q4, or 104.7 percent of GDP (see —). Assets are 106.1 percent of GDP one year prior, and 102.5 percent in 2019.

Public wealth is government assets minus liabilities, and is equivalent to negative 35.2 percent of GDP in the latest data (see —). Each balance sheet component is discussed in the following subsections.

### Government Balance Sheet

combined federal, state, and local governments  
share of GDP, percent



Source: Federal Reserve

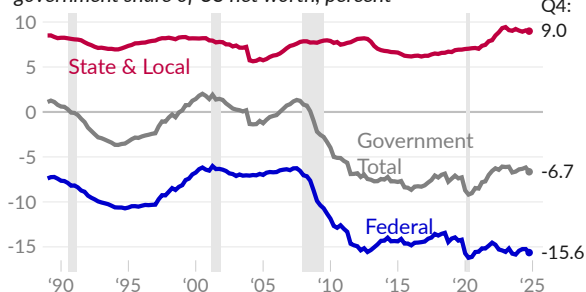
### Public Wealth

Government balance sheets can be summarized and put into broader context by examining the **government share of US wealth**, calculated from the Federal Reserve [financial accounts](#). Wealth, or net worth, is calculated as assets minus liabilities, and summarizes an overall financial position. The wealth of an individual group is then divided by total US wealth to determine the group's share of the total.

Excluding public land, the federal government's sizable debt exceeds the market value of its assets, therefore its financial position is negative. At an aggregate level, state and local governments own a small portion of US wealth, as the value of assets is greater than the amount of debt.

### Government Share of US Wealth

government share of US net worth, percent



Source: Federal Reserve

The combined US government has a net worth of negative \$24.6 trillion, as of 2024 Q4, equivalent to -6.7 percent of national wealth (see —). Federal government net worth (excluding land) is equal to -15.6 percent of national wealth (see —), while state and local government net worth is equivalent to 9.0 percent of US wealth (see —).

## Liabilities

Federal government public debt **totals** \$36.2 trillion in 2024 Q4, equivalent to 121.9 percent of GDP. This debt is **held by a mixture of investors**, including private domestic investors, overseas investors, the Federal Reserve, and government agencies and trusts (referred to as intragovernmental holdings).

Breaking down federal debt by holder, \$16.0 trillion, or 44.3 percent of the total, is held by private domestic investors (see ■). An additional \$8.5 trillion, or 23.5 percent of the total, is held by foreign investors (see ■). The remainder is held by the Federal Reserve (see ■) and various government agencies and trusts (see ■), such as the Social Security Trust Fund.



## Interest Expense

The ratio of public debt to GDP increased during the COVID-19 response, while the typical interest income from holding public debt initially fell because of lower interest rates. Treasuries and other government debt securities provide a safe asset for the balance sheets domestic households and businesses, and for foreign investors. The Federal Reserve also initially absorbed some of the newly issued treasuries. More recently, the Federal Reserve has raised interest rates and reduced the size of its balance sheet, which has increased interest income in the economy.

The Office of Management and Budget **report federal interest outlays** of \$882 billion in fiscal year 2024 (the year beginning October 1, 2023), compared to \$659 billion in fiscal year 2023.

Put into the context of the size of the economy, federal interest outlays in fiscal year 2024 were equivalent to 3.06 percent of GDP (see —), following 2.41 percent of GDP in FY2023 and 1.86 percent in FY2022, and compared to an average of 2.9 percent in the 1990s, when interest rates were substantially higher.



## Debt Sustainability

Changes in the ratio of federal government debt to GDP can be [decomposed](#) to understand how various economic forces affect the trajectory of the debt relative to our ability to service it. Specifically, **debt sustainability** is affected not only by borrowing but also by changes in real interest rates and economic growth.

In a mechanical way, government debt is the result of the accumulation of past deficits. When the government spends more than it takes in through taxes, it borrows the difference, which adds to the debt. Importantly, some government spending is interest payments on the debt. The *primary balance* measures the gap between spending, excluding interest payments, and revenue. Interest payments are a product of the interest rate and the existing debt. Higher real interest rates mean larger interest payments which increase deficits and, in turn, increase debt.

Federal debt is often divided by GDP as a way to capture the ability to repay the debt. The basic idea is that **a growing economy gradually erodes the burden of its debt**. As the economy grows, it is better able to produce the resources needed to repay its debt. Finally, there are often discrepancies between when borrowing occurs and when spending occurs, and the account balances at the Treasury vary over time. For example, the Treasury Secretary made more cash available to cover any potential short-term needs during the peak of the COVID-19 pandemic. Stock-flow adjustments correct for the difference between the change in liabilities (the stock) and the current federal deficit or surplus (the flow).

In 2024, the debt to GDP ratio increased by two percentage points (see ○). The primary balance added 2.5 percentage points to the debt to GDP ratio (see ■), economic growth subtracted 2.9 percentage points (see ■), and real interest rates added 1.3 percentage points (see ■). These combined factors were less than the actual change in liabilities; the adjustment to reconcile stocks and flows added 1.1 percentage points (see ■).

### Federal Government Debt Dynamics

contribution to change in debt to GDP ratio, percentage points



Source: Author's Calculations, Federal Reserve, Bureau of Economic Analysis



## Assets

US government assets include financial assets but are mostly comprised of the non-financial assets of state and local governments (SLG), such as buildings and equipment. Land is not included in US measures of government assets.

In the fourth quarter of 2024, the market value of government assets, excluding land, is \$31.1 trillion, equivalent to 104.7 percent of GDP. Of this, state and local government nonfinancial assets, such as buildings and equipment, are equivalent to 56.2 percent of GDP (see ■), and state and local government financial assets, such as insurance trust funds, are equivalent to 17.3 percent of GDP (see ■).

The market value of federal government nonfinancial assets is equivalent to 16.0 percent of GDP in 2024 Q4 (see ■). Federal government financial assets are valued at 15.3 percent of GDP (see ■).



## Government Net Investment

Government gross investment, less depreciation, is the government's net investment in the tangible assets that make the economy more productive. Government investment includes infrastructure, buildings, equipment, intellectual property, and other capital goods.

In the latest data, covering 2025 Q1, annualized government net investment is \$273.3 billion, the result of gross investment of \$1,108.6 billion and \$835.3 billion in depreciation. Government net investment is equivalent to 0.91 percent of GDP in 2025 Q1 (see —), compared to 0.86 percent in 2024 Q1, and 0.65 percent in 2023 Q1.





# International Transactions

Transactions between US residents and the rest of the world are recorded in two main categories: the current account, which tracks nonfinancial transactions with economic value, and the financial account, which records financial transactions like lending and borrowing. This section delves into both accounts, with a focus on the balance of payments, the difference between payments from residents and payments to residents. The section also covers international trade and discusses trends in exchange rates.

## Balance of Payments

The **current account balance** reflects international transactions for goods and services, transfers such as remittances, and ownership income from foreign assets. It comprises current receipts—payments to US residents primarily for exports of goods and returns on foreign assets—and current payments—payments from US residents to the rest of the world for imports, returns on foreign investment in the US, and transfers such as remittances.

This balance is further broken down into four components: the trade balance for goods (see ■), the trade balance for services (see ■), the primary income balance (covering wages and asset income, see ■), and the secondary income balance (including remittances and taxes, see ■).

As of 2024 Q4, the US runs a current account deficit of 3.7 percent of GDP, primarily as the result of a trade deficit on goods of 4.1 percent of GDP. The initial GDP report for 2025 Q1 does not include the data needed to calculate the current account balance, however, the goods trade deficit for 2025 Q1 is equivalent to 5.2 percent of GDP.

### Current Account Balance

balance on individual current account component, as percent of GDP



Source: Bureau of Economic Analysis

US current payments exceed current receipts and the US runs a persistent current account deficit. Economic theory suggests that capital flows towards countries with lower labor costs and less capital per worker, as they have higher marginal productivity from additional capital. However, in the case of the US, the opposite is happening. Capital is flowing from less-developed countries with lower wages into the US, largely to finance additional US consumer spending on imported goods.

### Components of Current Account

share of GDP, percent

	2025	'24	'24	'24	'24	'23	moving averages	
	Q1	Q4	Q3	Q2	Q1	Q4	3-year	10-year
Current Account Balance	-	-3.72	-4.12	-3.66	-3.40	-3.18	-	-
Current Receipts	-	16.63	16.56	16.75	16.85	16.83	-	-
Exports	10.93	10.84	10.96	10.87	10.92	10.93	11.07	11.45
Goods	7.02	6.92	7.11	7.08	7.12	7.19	7.29	7.54
Durable	3.98	3.83	4.00	3.93	3.90	3.94	3.99	4.42
Non-Durable	3.04	3.09	3.11	3.14	3.21	3.25	3.30	3.13
Services	3.91	3.91	3.85	3.79	3.80	3.74	3.77	3.90
Income Receipts	-	5.10	4.91	5.18	5.22	5.14	-	-
Transfer Receipts	0.74	0.69	0.69	0.69	0.72	0.76	0.73	0.76
Current payments	-	20.35	20.68	20.40	20.25	20.01	-	-
Imports	15.14	13.93	14.18	14.00	13.86	13.72	14.22	14.49
Goods	12.23	11.07	11.34	11.21	11.07	10.98	11.43	11.79
Durable	7.66	7.15	7.40	7.26	7.19	7.10	7.34	7.65
Non-Durable	4.57	3.91	3.94	3.95	3.89	3.88	4.09	4.15
Services	2.91	2.86	2.83	2.79	2.78	2.74	2.79	2.69
Income Payments	-	4.84	4.86	4.98	4.93	4.80	-	-
Transfer Payments	1.46	1.58	1.64	1.43	1.46	1.48	1.54	1.49

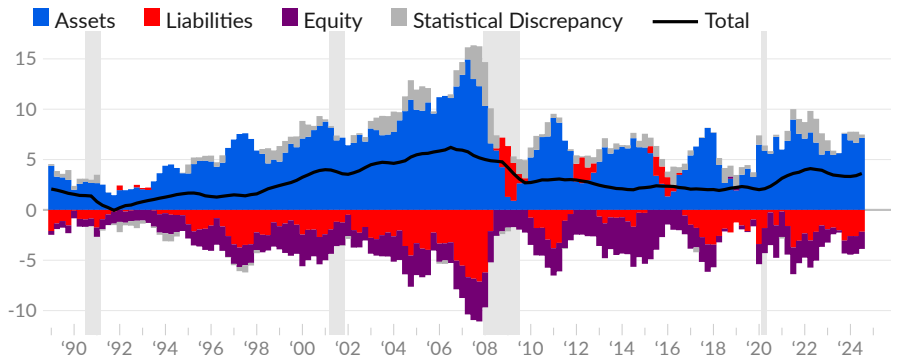
Source: Bureau of Economic Analysis

The financial account measures transactions between the US and the rest of the world that result in changes in the ownership of assets. The **financial account balance** captures the difference between capital inflows and capital outflows, and offsets the current account balance. Each quarter, the US acquires foreign goods and services, and the rest of the world acquires US assets, on a net basis.

In the third quarter of 2024, the rest of the world acquired \$1.51 trillion in US assets, equivalent to 7.2 percent of GDP (see ■). The rest of the world incurred the equivalent of negative 2.2 percent of US GDP in liabilities (see ■) and issued negative 1.7 percent of US GDP of equity in foreign businesses (see ■).

### Financial Account Balance

percent of GDP, one-year moving average



Source: Federal Reserve

## International Trade

Each month, the Census Bureau [report goods and services trade](#) between the US and the rest of the world. US purchases of foreign goods and services are classified as imports and foreign purchases of US goods and services are exports. The trade of goods includes consumer goods, industrial equipment, and agricultural products. Services trade includes travel and tourism, business services, and charges for the use of intellectual property, among other services.

### US Imports and Exports



US goods and services imports total \$419.0 billion in March 2025, following \$401.2 billion in February (see —). Imports average \$407.1 billion over the latest three months of data, and \$330.2 billion during the same months, one year prior. In 2019, monthly US imports average \$258.8 billion. For additional context, imports are equivalent to \$1,226 per capita, in the latest month.

The US exported \$278.5 billion of goods and services in March 2025, following \$278.0 billion in February (see —). The three-month average was \$275.7 billion in March, and \$262.0 billion one year prior. Exports were \$212.2 billion per month, on average, in 2019. In the latest month, exports are equivalent to \$815 per capita or \$1,703 per worker.

Spending on imports exceeds payments received for exports, resulting in a trade deficit. In March, the trade deficit was \$140.5 billion, following \$123.2 billion in February (see —). Over the past three months, the average trade deficit is \$131.4 billion, compared to \$68.2 billion one year prior. In 2019, the average monthly trade deficit is \$46.6 billion.

### International Trade

billions of US dollars, seasonally adjusted

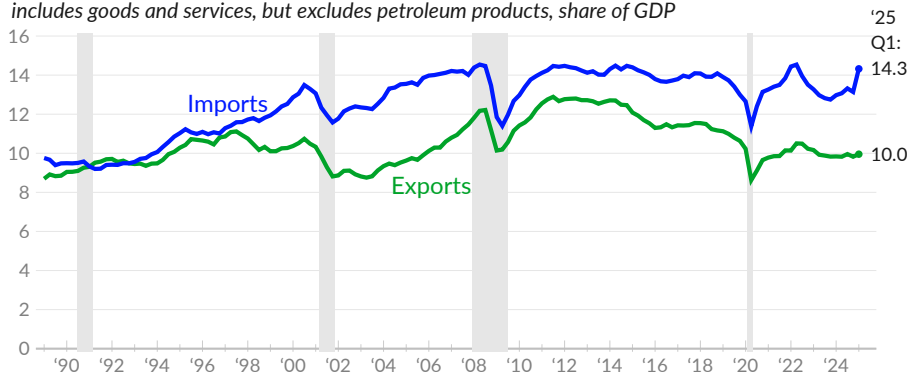
				quarterly average				
	Mar 2025	Feb 2025	Jan 2025	Mar 2024	Mar 2023	2025 Q1	2024 Q4	2024 Q3
Total Balance (—)	-140.5	-123.2	-130.7	-68.5	-60.3	-131.4	-83.3	-78.8
Goods Balance	-163.5	-147.0	-155.8	-93.5	-83.1	-155.5	-108.7	-103.2
Services Balance	23.0	23.8	25.2	25.0	22.8	24.0	25.4	24.4
Total Exports (—)	278.5	278.0	270.5	261.0	256.9	275.7	268.7	269.8
Goods Exports	183.2	181.9	173.6	170.8	173.1	179.6	173.1	176.7
Services Exports	95.2	96.1	96.9	90.1	83.8	96.1	95.7	93.1
Total Imports (—)	419.0	401.2	401.2	329.5	317.2	407.1	352.1	348.6
Goods Imports	346.8	328.9	329.4	264.3	256.3	335.0	281.8	279.9
Services Imports	72.2	72.3	71.7	65.2	60.9	72.1	70.3	68.7

Source: Census Bureau

Nonpetroleum goods and services imports (see —) were equivalent to 14.3 percent of GDP in the first quarter of 2025, while exports of nonpetroleum goods and services (see —) were equivalent to ten percent of GDP. In 2019 Q4, nonpetroleum imports were 13 percent of GDP, and exports were 10.6 percent.

### Imports and Exports, Nonpetroleum

*includes goods and services, but excludes petroleum products, share of GDP*



Source: Bureau of Economic Analysis

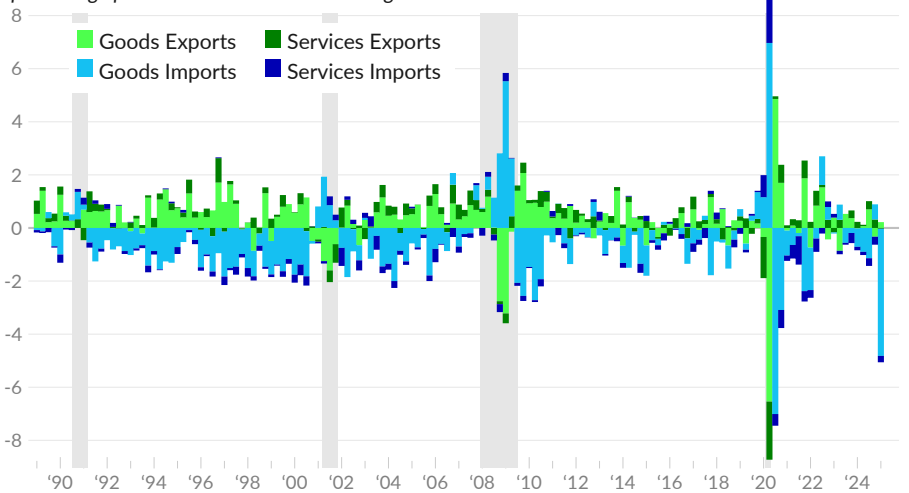
### Contribution to Overall Growth

The **trade balance** (exports of goods ■ and services ■ minus imports of goods ■ and services ■) acts as an adjustment to consumption and investment when calculating domestic production using the expenditure approach. A country with a positive trade balance, or trade surplus, produces more exports than its residents purchase in imports, therefore its trade balance is added to domestic purchases to calculate domestic production. The US runs a persistent trade deficit, which is instead subtracted from spending data to calculate domestic production.

Goods exports contributed 0.22 percentage point to GDP growth in the first quarter of 2025 while services exports subtracted 0.03 percentage point. Good imports subtracted 4.79 percentage points from GDP growth and services imports subtracted 0.24 percentage point.

### International Trade

*percentage point contribution to real GDP growth*



Source: Bureau of Economic Analysis

## Trade by Type

Numerous factors can influence the trade balance, including shifts in domestic and international preferences and incomes, fluctuations in exchange rates, and changes in trade policy. The table below presents key trade categories as a percentage of GDP at selected intervals over the past three decades.

### Exports and Imports by Type

share of GDP, percent

	period averages							
	'25 Q1	'24 Q4	'24 Q1	2016	2012 -13	2005 -06	1998 -99	1989 -93
Exports of Goods & Services	10.93	10.84	10.92	11.89	13.60	10.31	10.41	9.42
Exports of Goods	7.02	6.92	7.12	7.70	9.34	7.30	7.52	6.84
Foods, Feeds, & Beverages	0.54	0.58	0.59	0.69	0.81	0.46	0.50	0.60
Industrial Supplies & Materials	2.38	2.40	2.53	2.06	2.94	1.92	1.55	1.65
Petroleum & Products	0.98	1.01	1.08	0.53	0.89	0.28	0.11	0.12
Capital Goods, Except Automotive	2.32	2.17	2.17	2.77	3.21	2.84	3.27	2.61
Automotive Vehicles, & Parts	0.56	0.56	0.60	0.80	0.90	0.77	0.79	0.67
Consumer Goods, Ex. Food & Auto	0.87	0.84	0.89	1.03	1.11	0.91	0.86	0.74
Durable Goods	0.39	0.37	0.40	0.55	0.61	0.49	0.44	0.39
Nondurable Goods	0.48	0.47	0.49	0.47	0.50	0.41	0.42	0.35
Exports of Services	3.91	3.91	3.80	4.19	4.26	3.01	2.90	2.58
Transport	0.37	0.37	0.36	0.43	0.54	0.46	0.49	0.59
Travel	0.74	0.75	0.73	1.03	0.98	0.71	0.93	0.90
Intellectual Property Charges	0.55	0.53	0.50	0.60	0.67	0.50	0.40	0.29
Other Business Services	2.14	2.11	2.12	2.00	1.92	1.19	0.92	0.60
Imports of Goods & Services	15.14	13.93	13.86	14.56	16.71	15.99	12.65	10.38
Imports of Goods	12.23	11.07	11.07	11.80	13.85	13.48	10.59	8.45
Foods, Feeds, & Beverages	0.79	0.77	0.74	0.70	0.69	0.54	0.46	0.43
Industrial Supplies & Materials	2.26	2.15	2.29	2.32	4.24	4.24	2.22	2.16
Petroleum & Products	0.82	0.79	0.88	0.85	2.49	2.15	0.65	0.87
Capital Goods, Except Automotive	3.63	3.32	3.18	3.16	3.35	3.00	3.03	2.04
Automotive Vehicles, & Parts	1.57	1.54	1.68	1.87	1.84	1.84	1.74	1.46
Consumer Goods, Ex. Food & Auto	3.49	2.83	2.69	3.11	3.17	3.20	2.47	1.83
Durable Goods	1.37	1.26	1.27	1.63	1.70	1.75	1.29	0.97
Nondurable Goods	2.12	1.58	1.42	1.48	1.47	1.46	1.18	0.86
Imports of Services	2.91	2.86	2.78	2.77	2.86	2.51	2.06	1.93
Transport	0.57	0.55	0.53	0.49	0.59	0.60	0.54	0.55
Travel	0.63	0.63	0.61	0.58	0.55	0.57	0.63	0.61
Intellectual Property Charges	0.20	0.19	0.18	0.22	0.21	0.18	0.13	0.06
Other Business Services	1.41	1.40	1.36	1.32	1.32	0.91	0.57	0.38

Source: Bureau of Economic Analysis



## Import Penetration

Goods can be produced domestically, imported, or some combination of the two. The import share of the total US demand for goods, measured as US produced goods and imported goods less exported goods, is also referred to as **import penetration**. This measure has risen considerably over the past thirty years. The majority of the long-term increase has been concentrated in consumer goods, while the decrease since 2011 has come primarily from petroleum and related products.

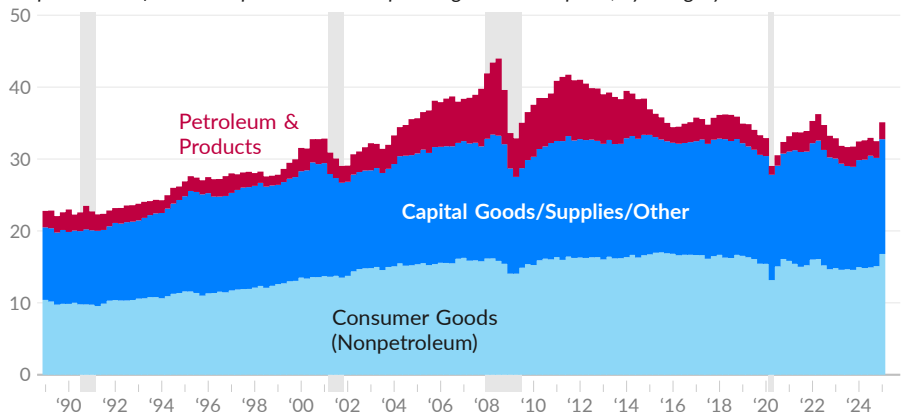
From 1989 to 2011, imports of consumer goods excluding petroleum increased by the equivalent of six percent of domestic consumption of goods, petroleum-related imports increased by the equivalent of 6.1 percent, and all other goods imports increased by the equivalent of 6.1 percent.

Since 2011, imports of consumer goods increased by the equivalent of 0.4 percent of domestic goods demand, imports of petroleum products decreased by the equivalent of six percent, and other imports decreased by the equivalent of 0.2 percent.

In 2025 Q1, the US imported nonpetroleum consumer goods equivalent to 16.8 percent of domestic consumption of goods (see ■). Petroleum-related imports claim 2.3 percent (see ■), and imports of all other goods, primarily capital goods, industrial supplies, and materials, are equivalent to 16.0 percent (see ■).

## Import Share of Goods

*import share of domestic-produced and imported goods less exports, by category*



Source: Bureau of Economic Analysis



## Trade by Partner

The US Census Bureau [report](#) monthly data on international **trade in goods by partner country**. In March 2025, trade with the top 25 trading partners (see table) comprises 99.5 percent of total US trade in goods. The top three US trading partners are Mexico, Canada, and China. These three countries account for 34.8 percent of US goods trade in March 2025.

<b>US Trade in Goods</b> <i>census basis, millions of USD, not seasonally adjusted</i>	March 2025			March 2024		
	Imports	Exports	Total	Imports	Exports	Total
Total, All Countries	\$342,602	190,974	533,577	259,144	179,325	438,470
Mexico	47,981	29,362	77,344	41,562	26,900	68,463
Canada	35,667	31,790	67,457	34,218	30,858	65,076
China	29,383	11,458	40,841	29,940	12,771	42,712
Ireland	30,726	1,401	32,127	7,976	1,277	9,253
Germany	15,654	8,129	23,783	14,260	6,595	20,856
Switzerland	18,565	4,164	22,729	3,670	2,293	5,964
Japan	13,458	7,290	20,749	12,231	6,821	19,052
South Korea	12,135	5,804	17,940	11,603	6,405	18,009
Taiwan	12,403	4,643	17,046	7,938	3,370	11,309
Vietnam	14,774	1,227	16,002	9,963	987	10,951
United Kingdom	7,039	8,727	15,767	5,766	6,756	12,522
India	11,190	3,768	14,958	7,575	3,961	11,537
Netherlands	4,042	8,525	12,567	2,349	7,776	10,126
France	7,797	4,324	12,122	4,952	3,741	8,694
Italy	7,229	2,914	10,144	6,381	3,010	9,392
Thailand	7,066	1,846	8,912	5,061	1,741	6,803
Brazil	3,898	4,654	8,552	3,189	3,935	7,124
Malaysia	5,638	2,153	7,791	4,122	2,011	6,133
Australia	3,888	2,947	6,835	1,106	3,111	4,217
Belgium	3,394	3,401	6,795	2,318	3,218	5,536
Singapore	2,951	3,477	6,428	3,392	4,655	8,048
Spain	2,476	2,395	4,872	1,955	1,948	3,904
Indonesia	2,970	922	3,893	2,258	862	3,120
Israel	2,292	1,360	3,652	1,970	1,308	3,278
Chile	1,832	1,698	3,530	1,392	1,779	3,171

Source: Census Bureau

Over the year ending March 2025, nominal total trade increased among 22 of the top 25 trading partners. The largest one-year increase in total trade was with Ireland. Monthly trade with Ireland grew by 22.9 billion, or 247.2 percent. The largest one-year decrease is with China, with monthly trade falling by 1.9 billion, which is a drop of 4.4 percent. Total trade with all countries grew 21.7 percent over the year.

Trade data have large seasonal differences, and can swing from one month to the next. The following subsection uses 12-month moving sums to smooth the data and highlight longer-term trends.

Imports of goods have increased from 8.4 percent of GDP in 1989 to 11.8 percent of GDP in the year ending March 2025. Goods imports from China increased by 2.5 percent of GDP from 1989 to 2015, and have since fallen by 1.2 percentage points to 1.5 percent of GDP. Goods imports from Mexico have increased by 1.3 percent of GDP since 1989. Goods imports from Japan have fallen by 1.2 percent of GDP.

Exports of goods have increased by 0.6 percent of GDP since 1989. The largest buyers of US-made goods are Canada, Mexico, and China. Exports to these three countries make up 39.8 percent of exports and are equivalent to 2.8 percent of GDP over the year ending March 2025. Exports to the European Union currently total 1.3 percent of GDP.

### Goods Trade by Partner

share of GDP, percent, 12-month moving sum



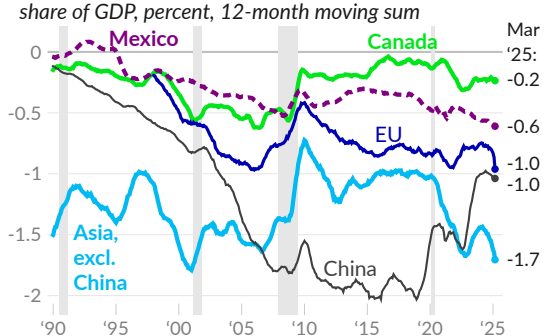
Source: Census Bureau



The trade balance, exports minus imports, has particular economic significance, and the breakdown by trading partner is no less interesting. Since 1989, the US goods trade deficit has increased by 2.7 percent of GDP, to 4.7 percent of GDP. In 2018, the deficit with China was two percent of GDP, but it has fallen to one percent of GDP.

### Trade Balance on Goods by Partner

share of GDP, percent, 12-month moving sum



Source: Census Bureau



The US also runs a trade deficit with the European Union. In 1997, trade between the EU and US was relatively balanced. In the latest data, the goods trade deficit with the EU is one percent of GDP.

The US trade deficit with Mexico is currently 0.6 percent of GDP. In the early 1990s, the US had a trade surplus with Mexico. The US has a surplus with south and central American countries, equivalent to 0.2 percent of GDP.



## International Investment Position

The US **net international investment position (IIP)** measures the difference between residents' foreign assets and liabilities. The Bureau of Economic Analysis [reports](#) US IIP data on a quarterly basis beginning in 2006, while prior data are annual.

In 2024 Q4, domestic holdings of foreign assets total \$35.9 trillion, which is 120.7 percent of GDP (see [—](#)). These assets translate to 128.2 percent of GDP in 2024 Q3, and 128.7 percent in 2019. Domestic liabilities to the foreign sector total \$62.1 trillion, or 209.0 percent of GDP, in 2024 Q4, following 210.4 percent in 2024 Q3, and 180.0 percent in 2019 (see [—](#)).

The overall result of these financial positions, net IIP, or holdings of foreign assets minus liabilities, identifies the US as a net debtor to the rest of the world, to the equivalent of 88.3 percent of GDP in 2024 Q4, following 82.2 percent in 2024 Q3, and 51.4 percent in 2019 (see [—](#)).



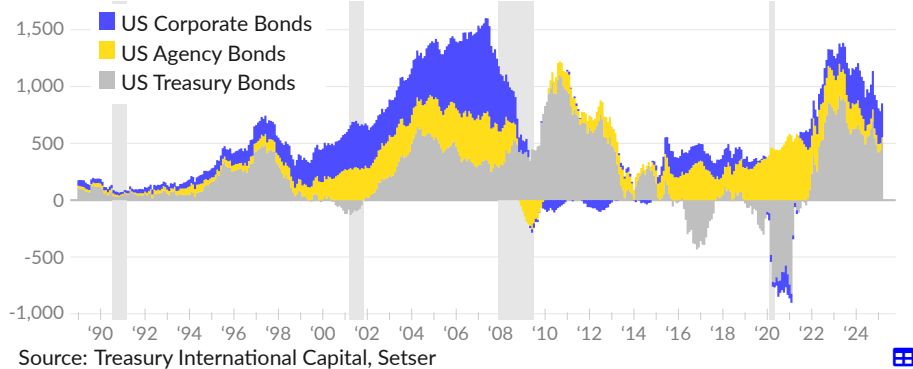
## Capital Flows

The **purchases and sales** of US bonds by the rest of the world give insight into overall **capital flows** and appetite for different types of debt. During the 2000s, other countries were accumulating US corporate and government bonds, as the US was borrowing from the rest of the world and running a very wide trade deficit. In 2020, the rest of the world was a net purchaser of US government agency bonds but a net seller of treasuries.

Over the year ending March 2025, the rest of the world was a net buyer of \$501 billion of US treasury bonds, equivalent to 1.7 percent of US GDP (see ■). Over the same period, the rest of the world was a net buyer of \$46 billion of US agency bonds, (see ■), and a net buyer of \$296 billion of US corporate bonds, (see ■).

### Long-Term Bond Flows

*purchases by foreigners minus sales by foreigners  
trailing 12-month sum, billions of March 2025 US dollars*



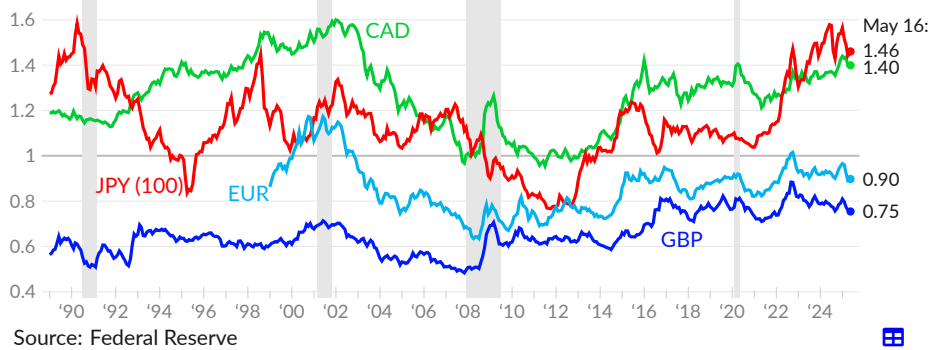
## Exchange Rates

Changes in the strength or weakness of the US dollar (USD) can affect trade and financial flows. The dollar is said to be relatively strong when more units of foreign currency, for example Japanese yen (JPY), British pounds (GBP), euros (EUR), or Canadian dollars (CAD), are required to buy one USD.

As of May 16, 2025, one US dollar buys approximately: 1.40 Canadian dollars (see —), 146 Japanese yen (see —), 0.90 euros (see —), and 0.75 British pounds (see —). Over the past three years, the nominal exchange rate between the US dollar and the Canadian dollar increased 2.8 percent, the USD-JPY rate decreased 5.8 percent, the USD-EUR rate decreased 2.5 percent, and the USD-GBP rate decreased 4.5 percent.

### Selected Exchange Rates

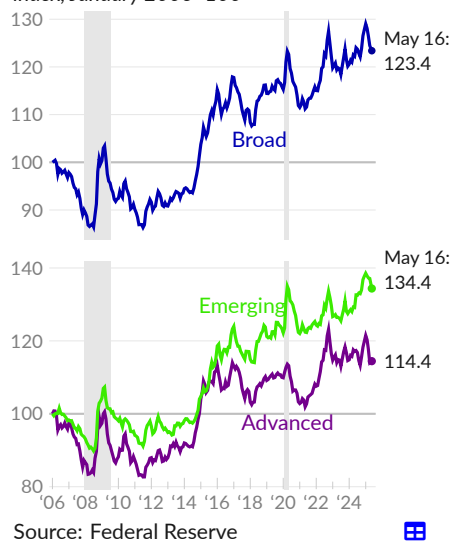
units of foreign currency required to purchase one US dollar



The Federal Reserve **trade-weighted dollar** indices **track** weighted-average foreign exchange rates based on 26 currencies that are important to US trade. The **weight** of each currency in the index is based on the bilateral trade share of total trade in goods and services. These US dollar indices can simplify analysis of the overall role of foreign exchange rates on US trade.

### Dollar Indices

trade-weighted foreign exchange rate, index, January 2006=100



The **broad dollar index** (see —) summarizes foreign exchange rates between the US and trading partners by weighting foreign currencies in the index by the total amount of goods and services trade with the relevant countries.

As of May 16, 2025, the broad dollar index is 23.4 percent above its value at inception in 2006. Over the past three years, the index value has averaged 122.6, compared to an average of 115.6 over the previous three-years.

The Fed separately calculates the trade-weighted exchange rate with **advanced economies**, and with **emerging markets**. Since 2006, the dollar has increased 34.4 percent against emerging market currencies (see —), and increased 14.4 percent against advanced economy currencies (see —).

Shifts in relative consumer prices between the US and trading partners complicate analysis of exchange rates. For example, the US dollar-Japanese yen exchange rate is relatively stable from 2000 to 2020, but Japan has less inflation in consumer prices over the period. At the end of the period, 100 yen buys more consumer goods in Japan than one dollar will buy in the US.

**Real effective exchange rates** incorporate the inflation rate in the US and in trading partners, and are again weighted by the amount of trade with each partner. The real effective exchange rate captures the basket of goods that can be purchased by a unit of currency, as opposed to capturing the basket of other currencies that can be purchased.

### USD Real Effective Exchange Rate

trade-weighted foreign exchange rate,  
index, January 2020=100



Source: BIS

The Bank for International Settlements (BIS) [calculates](#) **real effective exchange rates** for many countries, on a monthly basis. As of April 2025, the US dollar real effective exchange rate has increased 11.3 percent since 2020. In 2019, the index average was 98.6. Over the past three months, the index average value was 112.8.

### Selected Exchange Rates

units of foreign currency required to buy one US dollar

	May 16, 2025	1-month moving average	1-year moving average	2019 average	1-month percent change	1-year percent change	5-year percent change
EUR	0.898	0.884	0.926	0.893	2.2	-4.1	-3.1
GBP	0.754	0.751	0.779	0.784	-0.1	-5.6	-2.9
JPY	146.0	144.0	151.3	109.0	2.4	-7.3	30.5
CAD	1.399	1.387	1.394	1.327	0.8	1.8	5.5
MXN	19.52	19.59	19.44	19.25	-2.2	14.4	3.7
CNY	7.21	7.26	7.22	6.91	-1.3	-0.4	2.7
CHF	0.840	0.827	0.878	0.994	3.1	-8.5	-14.6
HKD	7.81	7.77	7.79	7.84	0.7	-0.1	0.4
INR	85.49	85.13	84.74	70.38	-0.2	2.5	19.3
AUD	1.564	1.559	1.539	1.439	-0.1	1.5	3.5
NZD	1.703	1.682	1.688	1.518	1.0	0.7	8.0
BRL	5.68	5.69	5.67	3.94	-3.1	9.7	29.5
KRW	1401.2	1413.4	1399.8	1165.8	-1.0	1.4	16.9
MYR	4.29	4.32	4.47	4.14	-2.6	-10.0	2.7
DKK	6.70	6.60	6.91	6.67	2.1	-4.1	-3.2
NOK	10.40	10.39	10.84	8.80	-1.5	-6.2	11.6
SEK	9.79	9.66	10.51	9.46	0.5	-10.9	-0.2
ZAR	18.09	18.45	18.24	14.45	-3.7	-3.8	19.7
SGD	1.300	1.304	1.333	1.364	-0.8	-4.7	-7.2
TWD	30.12	31.31	32.39	30.90	-7.3	-7.6	-0.5

Source: Federal Reserve

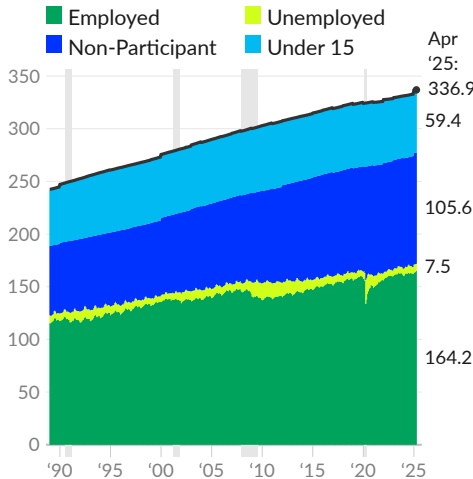
## Labor Markets

Labor is the primary source of income for US households and is essential to the production of goods and services. The portion of labor that is provided by a household member to others outside of the household or to other households is considered *employment*. As of April 2025, 165.0 million people are employed (including self-employment).

The number of people who are employed divided by the total population is the employment rate or employment-to-population ratio, which is 49.0 percent as of April 2025. Note that these values are not seasonally adjusted and include children, while BLS published values refer to those 16 or older.

### Labor Force Status of Population

millions of people, not seasonally adjusted



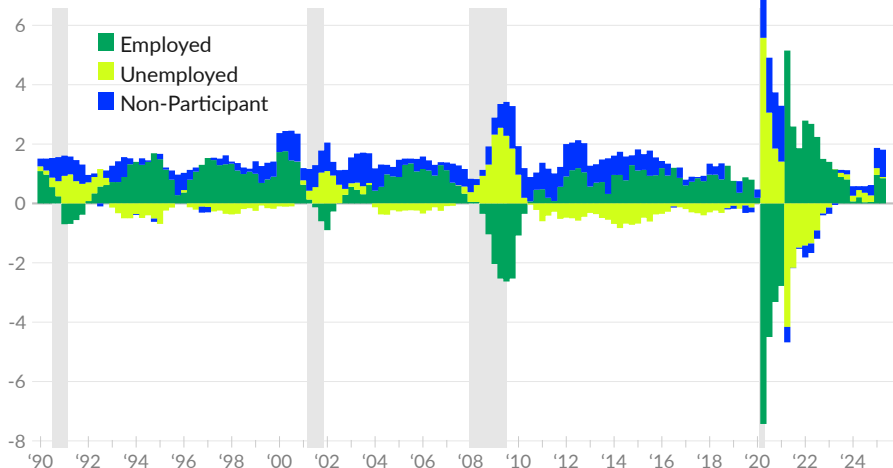
Source: Author's Calculations from CPS

When a member of a household is not employed but looked for a job during the past four weeks or is on temporary layoff, they are considered **unemployed**. As of April 2025, there are 6.7 million unemployed people. The combined group of employed and unemployed people is the labor force. The unemployment rate, unemployed people as a share of the labor force, is currently 3.9 percent. The labor force as a share of the population is the labor force participation rate, currently 51.0 percent.

People who are neither employed nor unemployed are considered *outside of the labor force*. Nonparticipants usually comprise about half of the population, and total 165.2 million in April 2025. The category includes children (59.4 million), students (19.4 million), unpaid caregivers (11.8 million), those unable to work due to disability or illness (13.4 million), those who want a job but have given up looking (5.7 million), and retirees and the elderly (53.7 million).

### Labor Force Status Changes

percentage point contribution to one-year growth of age 15+ population



Source: Author's Calculations from CPS

The labor force status of the US population varies by age, sex, and over time. Employment is the main source of income in the economy and is particularly important to overall levels of economic activity.

### Labor Force Status

*April 2025, thousands of people, not seasonally adjusted*

	Total, 16+	Men, 16-29	Men, 30-59	Men, 60+	Women, 16-29	Women, 30-59	Women, 60+
Population	273,197	31,024	64,022	38,214	30,716	65,023	44,197
Employed	164,043	19,230	54,906	12,542	17,944	48,398	11,022
Multiple Jobs	8,831	826	2,936	540	1,137	2,947	445
Full-Time	140,380	15,619	53,194	10,103	12,367	41,525	7,572
Part-Time	30,242	5,216	3,418	2,889	6,686	8,312	3,721
Economic Reasons	4,487	915	1,288	223	735	1,059	267
Unemployed	6,580	1,605	1,706	450	1,109	1,439	271
Not in Labor Force	102,574	10,189	7,410	25,222	11,663	15,186	32,905
Discouraged	5,531	1,199	901	527	1,080	1,160	664
Disabled/Ill	13,549	841	3,413	2,204	631	3,758	2,702
Family/Care	11,787	374	756	88	2,087	7,691	791
School	15,699	7,335	436	6	7,401	503	18
Retirement	54,327	86	1,437	22,266	159	1,764	28,616

Source: Author's Calculations from CPS

Changes in labor force status can highlight both secular and cyclical trends in the economy. The following table presents the net six-year change in labor force status, in number of people, from April 2019 to April 2025.

### Labor Force Changes

*Change from April 2019 to April 2025, thousands of people*

	Total, 16+	Men, 16-29	Men, 30-59	Men, 60+	Women, 16-29	Women, 30-59	Women, 60+
Population	14,504	550	2,723	4,874	470	1,357	4,531
Employed	7,333	247	2,507	961	167	2,555	895
Multiple Jobs	1,053	26	540	36	42	408	0
Full-Time	6,894	210	2,271	816	154	2,617	826
Part-Time	1,632	328	515	272	166	260	91
Economic Reasons	-2	78	111	-46	-10	-161	26
Unemployed	1,193	292	280	126	153	321	22
Not in Labor Force	5,978	12	-64	3,787	150	-1,519	3,613
Discouraged	593	139	99	-21	190	108	78
Disabled/Ill	-1,199	-49	-416	83	42	-740	-118
Family/Care	-831	33	79	-7	-296	-569	-71
School	-28	-54	44	-24	123	-89	-28
Retirement	7,322	-12	47	3,714	13	-177	3,738

Source: Author's Calculations from CPS

The next table provides the net one-year change in labor force status, in number of people. The table summarizes more-recent changes in labor force status.

### Labor Force Changes

*Change from April 2024 to April 2025, thousands of people*

	Total, 16+	Men, 16-29	Men, 30-59	Men, 60+	Women, 16-29	Women, 30-59	Women, 60+
Population	5,131	745	1,104	718	678	1,001	886
Employed	2,453	345	1,138	8	66	625	270
Multiple Jobs	491	101	254	-37	193	129	-149
Full-Time	2,268	396	1,116	-59	102	590	123
Part-Time	871	272	127	115	100	116	141
Economic Reasons	205	94	110	7	-93	-29	116
Unemployed	686	324	105	47	135	81	-7
Not in Labor Force	1,992	76	-139	662	477	294	622
Discouraged	49	16	-85	-15	24	40	69
Disabled/III	-341	-94	-199	-151	-33	178	-42
Family/Care	-217	-38	-138	-30	-26	124	-107
School	693	254	8	-29	490	-20	-10
Retirement	1,888	-36	227	880	30	74	713

Source: Author's Calculations from CPS

Finally, long-term changes in labor force status can be summarized by comparing the tight labor market of 2000 with the most recent data. The following table presents the net change in labor force status, in number of people, from April 2000 to April 2025.

### Labor Force Changes

*Change from April 2000 to April 2025, thousands of people*

	Total, 16+	Men, 16-29	Men, 30-59	Men, 60+	Women, 16-29	Women, 30-59	Women, 60+
Population	61,179	4,602	7,909	19,083	4,166	6,291	19,129
Employed	27,116	538	5,756	7,379	1,206	5,220	7,017
Multiple Jobs	1,046	-92	-4	313	142	394	293
Full-Time	22,807	248	4,557	6,324	590	5,775	5,312
Part-Time	5,677	522	1,671	1,336	572	-324	1,900
Economic Reasons	1,423	352	493	109	179	108	182
Unemployed	1,368	232	472	281	-44	231	195
Not in Labor Force	32,695	3,832	1,681	11,423	3,003	840	11,917
Discouraged	1,094	212	269	246	-58	43	383
Disabled/III	3,747	428	286	1,190	273	538	1,033
Family/Care	-260	206	442	56	-611	-98	-255
School	6,315	2,850	205	4	3,123	126	7
Retirement	21,259	68	276	9,828	139	208	10,739

Source: Author's Calculations from CPS

## Labor Force Status and Age

There is a clear relationship between age and employment. Children are not permitted to work and many young people attend school full time. During ages 25 to 54, around 80 percent of the population is employed. The remaining 20 percent include caregivers and those unable to work due to disability or illness. Retirement becomes more likely as workers reach their 60s and 70s; less than 10 percent of people continue to work into their 80s.

### Labor Force Status, by Age

share of same-age population, percent, April 2025



change since April 2019 in share of age group, percentage points



Source: Author's Calculations from CPS, Bruenig

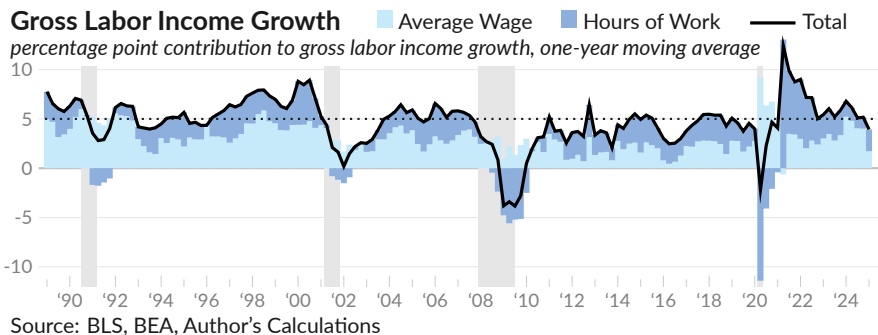




## Gross Labor Income

Businesses do not usually cut wages in response to an economic downturn, and will instead typically employ fewer workers and/or cut hours. As a result, wage data give only a partial picture of the labor income received by households.

**Gross labor income** (compensation of employees in the national accounts), which captures both the amount of employment and the rate of compensation, increased at an average annualized rate of 3.9 percent over the year ending 2025 Q1. Changes in wages contributed 1.7 percentage points, and changes in total hours worked contributed 2.2 percentage points.



Historically, the US economy can sustain gross labor income of at least five percent. For example, assuming a stable labor share of income, this could be inflation of two percent and real output growth of three percent. Gross labor income growth of under five percent may indicate weak aggregate demand.

Among measures of overall economic activity, gross labor income has the added benefit that it can be calculated using multiple independent data sources. The measure can be calculated from timely measures such as nonfarm payrolls and average earnings, from compensation of employees data from BEA, or from more-comprehensive measures that reduce effects of composition, such as the employment cost index combined with the prime-age employment rate.

Using the nonfarm payrolls approach (see —), the one-year growth rate of gross labor income is 5.0 percent in April 2025, following 5.5 percent one-year prior, in April 2024.



The monthly data on compensation of employees from BEA (see —) shows one-year gross labor income growth of 3.6 percent in March 2025, and 7.3 percent in March 2024, one-year prior.

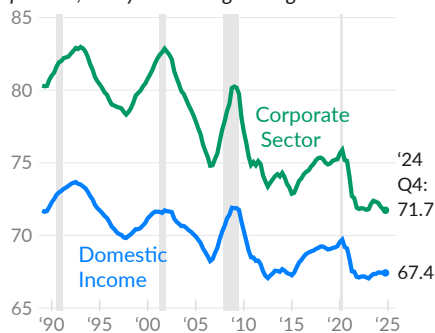
Calculating gross labor income from the employment cost index for private industries and the prime age employment rate (see —), one-year growth is 3.2 percent in 2025 Q1, following 4.5 percent one year prior.

## Labor Share of Income

The **labor share** measures the portion of available income that is paid to workers. Labor income is measured in the national accounts as employee compensation, and net income is measured as employee compensation plus the net operating surplus. Net income, or income after depreciation, is used instead of gross income because depreciation expenses are not available to labor or capital.

### Labor Share of Net Income

percent, one-year moving average



Source: Bureau of Economic Analysis

Over the year ending 2024 Q4, labor receives 67.4 percent of net domestic income (see —). Labor's share increased 0.1 percentage point over the past year. For context, one percent of net domestic income translates to \$227 billion per year, which is \$1,430 per worker.

Labor's share in the corporate sector is 71.7 percent in 2024 Q4 (see —). The corporate sector has well-defined accounting, which is useful for this analysis. The corporate labor share is currently 11.2 percentage points below its 30-year high of 83.0 percent in 1993 Q1.

## Productivity-Pay Gap

When analyzing the fall in labor share of income, it's useful to consider the **gap between labor productivity and pay**. Behind long-term output growth is productivity growth and population growth. Since 1989, annualized net output growth is 2.3 percent, net productivity growth is 1.4 percent, and population growth is 0.9 percent.

While the US has modest labor productivity growth over the past few decades, wages have not kept pace. The average wage has grown by 0.8 percent per year since 1989, and the median wage has increased by 0.5 percent per year.

### Productivity-Pay Gap



Source: BEA, BLS, Author

Data notes: Net labor productivity is real net domestic product divided by total hours worked from the CPS. Average wages and salaries is from the ECI, and covers all civilian workers. Median usual weekly earnings from the CPS cover full-time civilian wage and salary workers. Average wages are deflated using the PCE price index and median wages are deflated with the CPI.

More-complete [analysis](#) finds that the productivity-pay gap emerged around 1979; between World War II and 1979, employee compensation kept pace with productivity growth. Researchers argue that the post-1979 gap is tied to policies that weaken unions and reduce bargaining power for the typical worker.

# Employment

Employment is critical to production and as a source of income. This subsection covers payrolls and employment rates for different groups and places. Related topics, such as work arrangements, hours worked, and wages, are covered in later subsections.

## Overview

Two primary sources of employment data are households and employers. Households report activities, including employment and self-employment, while employers report payrolls.

In April 2025, establishments report 159.3 million **nonfarm payroll employees** (see —). The pre-COVID peak was 153.1 million in November 2019. Households report 164.0 million employed people, including the self-employed but not including armed forces, in the latest month, compared to a pre-COVID peak of 159.1 million (see —).

Private production and nonsupervisory workers are engaged in production, including working supervisors, or in other activities but not above the working supervisor level. In April 2025, this group totals 110.2 million, compared to a pre-COVID peak of 106.9 million (see —). Production and nonsupervisory workers comprise 81.4 percent of private nonfarm payrolls in April 2025.

## Employment Level

millions, not seasonally adjusted



Source: Bureau of Labor Statistics

## Monthly Change

thousands, seasonally adjusted



■

In April 2025, seasonally-adjusted civilian employment increased by 436,000 (see ■), far above the 2019 average increase of 169,000 jobs per month. The US added a net total of 177,000 nonfarm payroll jobs in April 2025 (see ■), compared to a monthly average of 165,500 in 2019. The average of both surveys over the past three months shows an increase of 85,500 employees per month.

## Employment Level

millions

	seasonally adjusted		not seasonally adjusted				
	Apr 2025	Mar 2025	Apr 2025	Mar 2025	2019 Avg.	2017 Avg.	2000 Avg.
Employed	163.9	163.5	164.0	163.4	157.5	153.3	136.9
Nonfarm Payrolls	159.5	159.3	159.3	158.4	150.9	146.6	132.0
Private Nonfarm Payrolls	135.9	135.7	135.4	134.5	128.3	124.3	111.2
Production & Nonsuperv.	110.7	110.6	110.2	109.5	105.6	102.4	90.5

Source: Bureau of Labor Statistics

## Payroll Employment

The Current Employment Statistics Program [surveys](#) around 130,000 businesses and government agencies each month. Payroll data from this survey provide insight into the overall health of the economy by indicating the pace of job growth. The payroll data also reliably identify changes in employment in individual industries.

Nonfarm payrolls increased by 177,000 in April 2025, following 185,000 jobs added in March, and 102,000 added in February (see ■). Average payroll growth was 154,700 over these three months, slightly below the average of 231,700 during the previous three months.

During March and April 2020, the US lost a combined 22 million jobs. Since May 2020, a total of 29.1 million jobs have been added, equivalent to 133.0 percent of those lost.

To maintain a steady payroll employment rate with population growth, the US needed to add 251,000 jobs in April 2025. Pre-pandemic, in 2019, the US was adding an average of 165,500 jobs per month.

### Nonfarm Payroll Growth

one-month change, in millions, seasonally adjusted



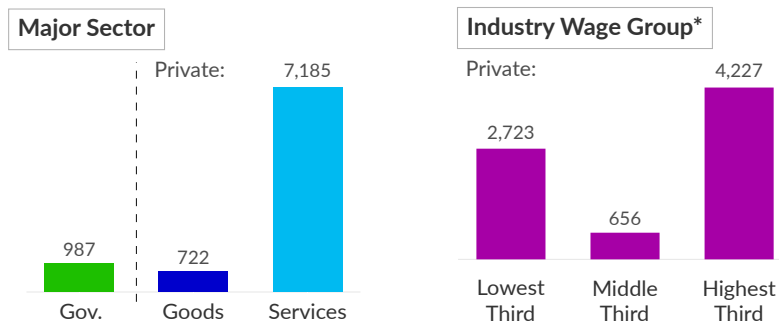
Source: Bureau of Labor Statistics

Over the six years ending April 2025, nonfarm payrolls increased by a total of 8,894,000. By sector, combined government payrolls grew by 987,000 (see ■), and private payrolls increased by a total of 7,907,000 over the six-year period. Private goods-producing industries added 722,000 jobs (see ■), and private service-providing industries added 7.2 million jobs (see ■).

Dividing the private industries into three wage groups, the lowest-wage industries added 2,723,000 jobs since April 2019, the middle-wage industries gained 656,000 jobs, and the highest-wage industries added 4.23 million jobs (see ■).

### Six-Year Change in Payrolls (April 2019 to April 2025)

not seasonally adjusted, thousands of jobs



\*Wage groups are derived from 2019 average hourly earnings by 3-digit NAICS industry. Private industries without wage information added 309,500 jobs over the period.

Source: Bureau of Labor Statistics

The establishment survey [provides](#) reliable industry-level estimates of payroll employment. Household surveys have a higher potential to misclassify industries and are considered less-reliable for industry-level estimates of payroll employment.

Over the six years ending April 2025, the industry groups with the largest increase in payrolls were health care (+1,930,200), professional and technical services (+1,365,200), transportation and warehousing (+1,145,900), and social assistance (+924,800). The private industry groups with the least job growth were administrative and support (-233,400), accommodation (-112,300), and mining and logging (-110,000).

### Nonfarm Payrolls by Industry Group

	<i>seasonally adjusted</i>				<i>not seas. adjusted</i>	
	<i>in thousands</i> April 2025	1-month change	Feb '25– Apr '25 average	Nov '24– Jan '25 average	April 2025	6-year change
Total nonfarm	159,517	177	155	232	159,316	8,894
Total Private	135,905	167	148	203	135,377	7,907
Goods-Producing	21,706	11	15	7	21,562	722
Mining & Logging	625	1	1	-1	620	-110
Construction	8,316	11	10	6	8,226	848
Manufacturing	12,765	-1	3	2	12,716	-16
Private Service-Providing	114,199	156	133	196	113,815	7,185
Wholesale Trade	6,186	6	4	5	6,171	296
Retail Trade	15,589	-2	5	19	15,466	57
Transportation & Warehousing	6,794	29	17	28	6,684	1,146
Information	2,938	0	-1	6	2,922	89
Financial Activities	9,255	14	12	14	9,202	522
Real Estate & Rental & Leasing	2,505	9	6	5	2,476	186
Professional & Technical Services	10,865	4	1	10	10,885	1,365
Management	2,626	1	3	0	2,615	115
Administrative & Support	8,599	8	7	2	8,555	-233
Educational Services	4,008	12	6	0	4,165	264
Health Care	18,144	51	52	50	18,101	1,930
Social Assistance	5,050	8	12	22	5,055	925
Arts, Entertainment, & Recreation	2,694	3	4	16	2,633	262
Accommodation	1,952	4	2	1	1,909	-112
Food Services & Drinking Places	12,346	17	3	12	12,314	298
Other Services	6,031	-1	5	11	6,021	139
Utilities & Waste Management	1,120	4	1	2	1,115	122
Government	23,612	10	7	28	23,939	987

Source: Bureau of Labor Statistics



Summarizing employment changes by grouping industries can have the adverse effect of hiding changes within these industry groups. Additionally, industry groups can be vague or overly broad. The government and business chartbook sections contain more information on industry-level employment trends.



## Employment Rates

The **employment rate**, or the employment-population ratio, is the share of a group that is employed. Employment rates can provide useful insight into macroeconomic conditions. A high employment rate means available labor are being utilized in the productive process. All else equal, higher employment results in both increased supply, as the result of more labor being used for production, and increased demand, as the result of higher levels of income.

Economists are interested in both the overall employment rate and in the employment rates for individual groups of people. The overall employment rate provides insight into the overall utilization of labor of a society and is affected by demographic and macroeconomic factors. Employment rates for individual groups can tell us about macroeconomic conditions and even tell us about differences in local economic conditions.

As of April 2025, the Bureau of Labor Statistics [report](#) an overall (age 16 and older) employment rate of 60.0 percent (see —), a one-year decrease of 0.2 percentage point, and a 0.8 percentage point decrease since 2019.

### Employment Rate, Age 16 and Older

*employed share of age 16 and older population, percent, seasonally adjusted*



Source: Bureau of Labor Statistics

Importantly, a larger share of the US population is of retirement age, reducing the overall US employment rate. To examine macroeconomic conditions separate from demographic developments, BLS [report](#) the employment rate for a more-narrow age group, specifically, those age 25 to 54. This group has the highest employment rate and are sometimes considered the “prime” age for labor market purposes.

The **age 25 to 54 employment rate** is an important measure of labor market utilization. In a tight labor market, the age group is employed at a very high rate. In April 2025, 80.7 percent of 25 to 54 years olds were employed (see —), the highest level since January 2025. Over the past year, the age 25 to 54 employment rate was virtually unchanged. The April 2025 rate is 0.7 percentage point (equivalent to 970,000 workers) below the average rate of 81.4 during the tight labor market of 1999–2000.

### Employment Rate, Age 25 to 54

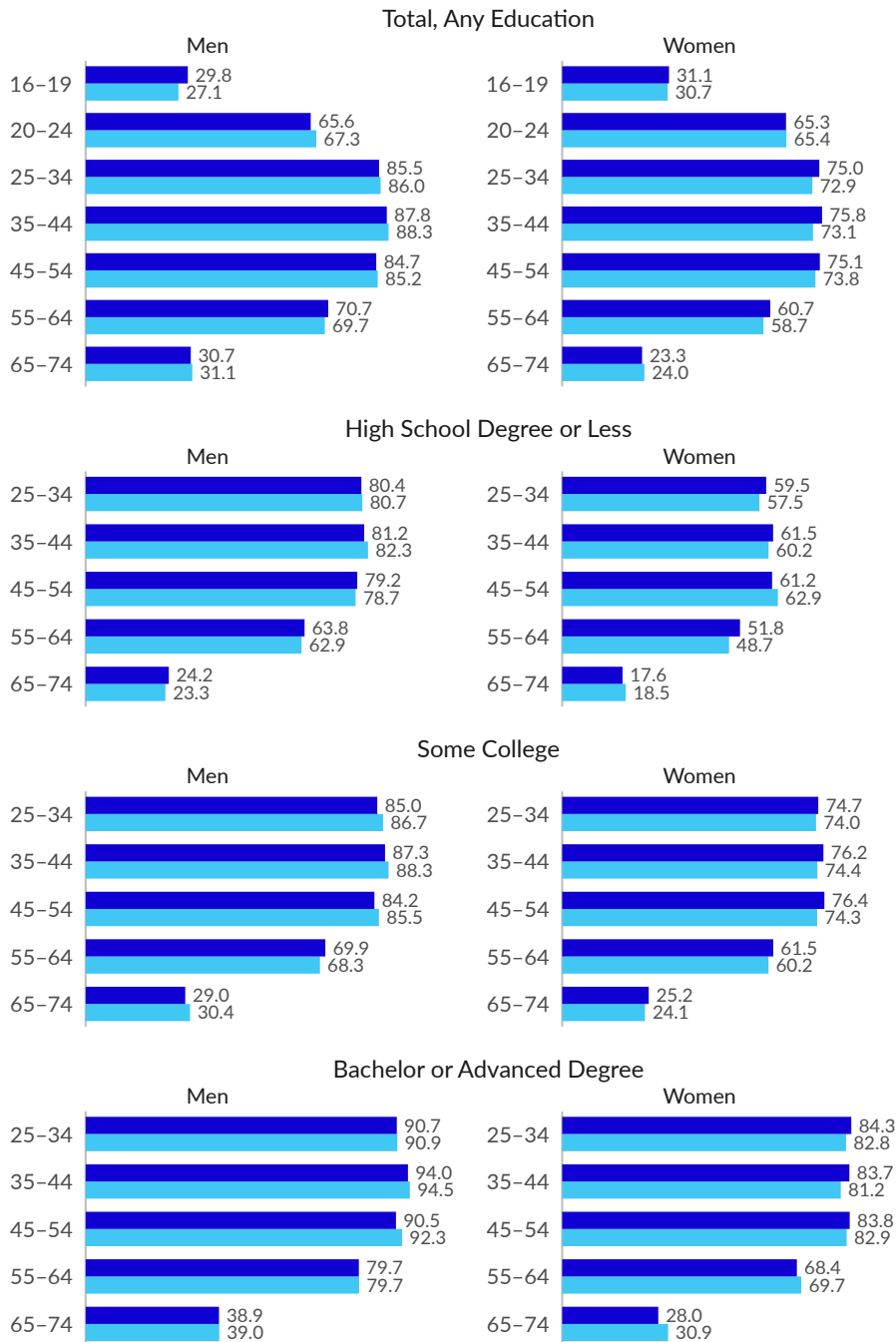
*employed share of age 25 to 54 population, percent, seasonally adjusted*



Source: Bureau of Labor Statistics

Employment rates vary over time, but also by age, gender, and education, among other factors. Over the three months ending April 2025, the employment rate for most subgroups is about the same as it was before the pandemic. At a given point in time, employment rates tend to increase with education and tend to peak during ages 25 to 54. Within most age groups, employment rates are higher for men, though the gap has narrowed over the long-run.

**Employment Rates** ■ April 2025 ■ April 2019  
employed share of age group, percent, three-month average



Source: Author's Calculations from CPS



Next, we examine how employment rates vary across states. In April 2025, the age 16 and older employment rate is below 60 percent in 25 states. One year prior, in April 2024, the employment rate was below 60 percent in 21 states. The rate is above 65 percent in seven states, in the latest month, and in eight states in April 2024.

The states with the highest employment rates in April 2025 are North Dakota (67.8%), the District of Columbia (67.8%), and South Dakota (67.7%). The states with the lowest employment rates are West Virginia (52.5%), Mississippi (54.3%), and New Mexico (55.5%).

### Employment Rate by State

*employed share of age 16+ population, percent, not seasonally adjusted*



Source: Bureau of Labor Statistics

### Employment Rate and One-Year Change

*age 16 and older employment rate, percent, not seasonally-adjusted, as of April 2025 and one-year change, percentage points*

North Dakota	67.8 (+0.2)	Alaska	61.9 (+0.9)	Arizona	59.1 (-0.5)
Distr. of Columbia	67.8 (-1.4)	Indiana	61.7 (+0.7)	Georgia	58.8 (-1.1)
South Dakota	67.7 (+0.5)	Illinois	61.7 (-0.1)	New York	58.7 (+0.3)
Nebraska	67.6 (+0.3)	Idaho	61.3 (-0.2)	Tennessee	58.6 (+0.6)
Minnesota	66.1 (-0.1)	Missouri	61.3 (-0.1)	Michigan	58.4 (-0.6)
Utah	66.0 (-0.7)	Oklahoma	61.2 (+0.3)	North Carolina	57.5 (-1.1)
Iowa	65.5 unch	New Jersey	60.8 (-0.9)	Maine	57.2 (-0.6)
Colorado	64.5 (-0.7)	Rhode Island	60.4 (-1.4)	Delaware	57.0 (-0.9)
Kansas	64.5 (-0.3)	Montana	60.4 (-1.1)	Arkansas	56.9 (+0.3)
Massachusetts	63.6 unch	Oregon	59.9 (-0.3)	Alabama	56.8 (+0.8)
New Hampshire	63.3 (-0.4)	Nevada	59.9 (+0.5)	Florida	55.9 (-1.0)
Virginia	63.0 (-1.4)	Ohio	59.7 unch	Kentucky	55.7 (+0.2)
Texas	62.9 (+0.4)	Washington	59.7 (-1.2)	Louisiana	55.7 (-0.6)
Wisconsin	62.9 (-0.9)	Wyoming	59.5 (-1.7)	South Carolina	55.6 (-0.5)
Maryland	62.7 (-0.8)	Hawaii	59.3 (+1.1)	New Mexico	55.5 (+0.1)
Connecticut	62.6 (+0.3)	Pennsylvania	59.3 (-0.9)	Mississippi	54.3 (+0.6)
Vermont	62.5 (-0.9)	California	59.3 (+0.4)	West Virginia	52.5 (-0.3)

Source: Bureau of Economic Analysis



A tight local labor market will employ those ages 25 to 54 at a very high rate, barring any local labor supply constraints, for example availability or cost of child care or high rates of disability. In April 2025, the states with the highest employment rates for 25 to 54 year olds are North Dakota (88.5 percent), Delaware (87.2 percent), and District of Columbia (85.4 percent).

The age 25 to 54 employment rate is higher in April 2025 than it was in April 2019 in 32 states, and lower in 19 states. Comparing the latest three months to the previous three months, the seasonally-adjusted age 25 to 54 employment rate increased in 27 states, decreased in 21 states, and was unchanged in three states.

### Age 25 to 54 Employment Rate by State

*employed share of age 25 to 54 population, percent, seasonally adjusted, three-month moving average*



Source: Author's Calculations from CPS

### Employment Rate by State

*employed share of age 25 to 54 population, percent, seasonally adjusted, three-month moving average*



Source: Author's Calculations from CPS

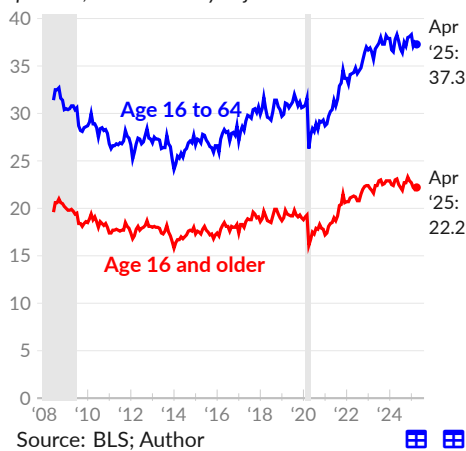


The Bureau of Labor Statistics (BLS) also [report](#) the **employment rate for people with disabilities**. People with disabilities may be limited in their ability to participate in labor markets and can also face discrimination during hiring. Labor market prospects for the group are also affected by economic conditions. A tight labor market pushes businesses to accommodate disabilities and to discriminate less in hiring.

Beginning in June 2008, the Current Population Survey (CPS) asks respondents age 16 and older whether they have difficulty with any of the following: hearing, seeing (even while wearing glasses), walking or climbing stairs, concentrating, remembering, making decisions, dressing or bathing, or running errands alone. In April 2025, 34.8 million people age 16 and older report at least one such disability, of which 16.8 million are under age 65.

### Employment Rate, with Disability

*employed share of age group, with disability, percent, not seasonally adjusted*



As of April 2025, BLS reports a 22.2 percent employment rate for individuals aged 16 and over with at least one disability (see —). This marks a 0.8 percentage point decrease over the past year, and a jump of 3.8 percentage points since April 2021.

For those age 16 to 64 with disabilities, the employment rate is 37.3 percent in April 2025 (see —), a one-year decrease of 0.5 percentage point, and a 7.1 percentage point increase since 2021.

In 2013, during the sluggish recovery from the great recession, the employment rate for those age 16 to 64 with a disability averaged 26.8 percent.

The monthly jobs report describes employment at a given point in time, by asking about activities during a specific week of the previous month. To instead examine activities over a *period of time*, annual data on weeks worked per year and hours worked per week can be combined to identify the **fully-employed**, or full-time, full-year workers, who usually work 35 hours per week or more for 50 weeks per year or more. The Census Bureau [report](#) 121.4 million fully-employed people in 2023, equivalent to 36.5 percent of the US population, compared to 121.4 million (36.7 percent) in 2022.

Employment rates vary dramatically by location. In 2023, 57.1 percent of commuter zones have at least a third of their population working full-time and full-year. A total of 2 commuter zones (out of 741), covering 0.1 million people, have a quarter of the population or less fully employed. The top ten and bottom ten commuter zones by fully-employed rate are listed below.

### Commuter Zone Fully-Employed Rate

*full-time, full-year worker share of population, 2023*



Source: American Community Survey, Dorn, Author's Calculations

### Employment Rates of Largest Commuter Zones, 2023

	<i>all ages</i>		<i>age 25 to 54</i>	
	full-time & full-year	employed	full-time & full-year	employed
Los Angeles, CA	35.3	59.5	60.8	89.5
New York, NY	36.1	60.1	62.9	90.2
Chicago, IL	38.2	62.5	66.6	92.0
Houston, TX	37.6	59.5	64.9	90.1
Newark, NJ	38.6	62.2	66.6	91.5
Philadelphia, PA	37.1	62.3	65.8	91.8
Washington, DC	42.8	64.5	73.1	94.0
Atlanta, GA	39.9	62.6	67.7	91.8
Boston, MA	38.7	65.5	67.4	93.3
Dallas, TX	40.6	62.0	68.4	91.2
Detroit, MI	34.8	60.1	62.9	90.8
San Francisco, CA	38.0	63.0	65.3	91.8
Phoenix, AZ	37.3	60.3	66.1	90.8
Seattle, WA	38.5	64.2	64.8	92.7
Miami, FL	39.7	60.7	66.5	90.1

Source: American Community Survey, Dorn, Author's Calculations

## Unemployment

The headline unemployment rate, also known as the U3 unemployment rate, measures people who do not have a job but are looking for one or are on temporary layoff, as a share of the labor force (the employed and unemployed). BLS reports 7.2 million unemployed people in April 2025, and an unemployment rate of 4.2 percent (see —), in line with the March 2025 rate of 4.2 percent, but slightly above the April 2024 rate of 3.9 percent.

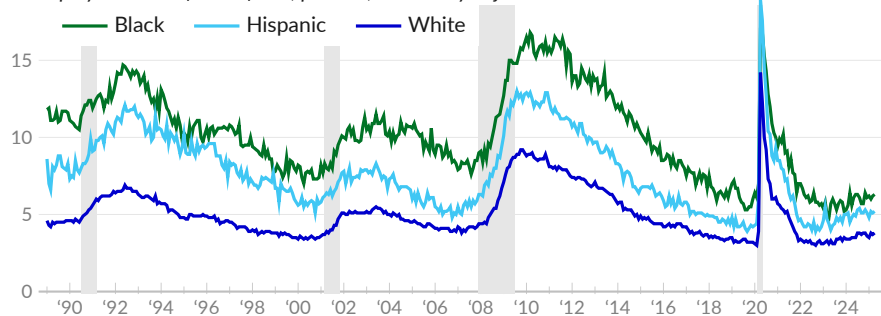
BLS also report a broader measure of unemployment, known as U6 or labor under-utilization. Labor under-utilization includes U3 unemployment, as well as people who have given up looking for work and people who work part-time but want to work full-time. In April 2025, the labor under-utilization rate is 7.8 percent (see —).



Periods of unemployment are more common for disadvantaged groups. The black or African American unemployment rate is typically double the white unemployment rate. Employment opportunities for disadvantaged groups are more-dependent on current labor market conditions. A very tight labor market reduces racial discrimination in hiring, while disadvantaged groups are more likely to lose jobs in a downturn. The black unemployment rate is currently 6.3 percent, 0.2 percentage point above the February 2020 rate (see —).

### Unemployment Rate

unemployed share of labor force, percent, seasonally adjusted



### Unemployment Measures

seasonally adjusted, percent

	Apr '25	Mar '25	Feb '25	Jan '25	Apr '24	Apr '23	GFC peak	Date of peak
Under-utilization Rate (U6)	7.8	7.9	8.0	7.5	7.4	6.6	17.2	Dec '09
Unemployment Rate (U3)	4.2	4.2	4.1	4.0	3.9	3.4	10.0	Oct '09
by race/ethnicity:								
White	3.8	3.7	3.8	3.5	3.5	3.1	9.2	Oct '09
Black	6.3	6.2	6.0	6.2	5.6	4.8	16.8	Mar '10
Hispanic	5.2	5.1	5.2	4.8	4.8	4.4	13.0	Aug '09
Asian	3.0	3.5	3.2	3.7	2.9	2.9	8.4	Dec '09

Source: Bureau of Labor Statistics

Current Population Survey microdata are used to calculate unemployment by race and ethnicity over the latest six months, on average, and for the same six months before the COVID-19 pandemic. The groups used to produce these estimates separate those with a non-Hispanic ethnicity by race: white alone, black alone, Asian or Hawaiian/Pacific Islander alone, Native American/American Indian or Alaskan Native alone, or more than one race, from those with a Hispanic ethnicity and any race.



## Unemployment Rate



## Unemployment Rate, Continued



Source: Author's Calculations from CPS



## Reasons for Unemployment

There are several **reasons for unemployment**. In April 2025, 3.5 million people, or 2.0 percent of the labor force, were unemployed from losing their job (see ■). An additional 0.5 percent voluntarily left a job (see ■). Re-entrants, people who left the labor force but are looking for a new job, comprised 1.3 percent (see ■). Lastly, 0.4 percent of the labor force were new entrants to the labor market, looking for their first job (see ■).

The mixture of reasons for unemployment may reflect the existing economic conditions. In a downturn, workers who lose jobs are a larger share of the unemployed. A downturn also makes it harder for young people to find their first job, increasing their share of the total. In contrast, an economic boom reduces job losses and improves job-finding.

Other reasons for unemployment claim a larger share of the total during a boom. An economic boom can entice people to re-enter the job market, and encourage workers to quit and look for a new job. The overall prevalence of these categories, however, is also *reduced* during a boom, by an improved job-finding rate.



Many job losses are temporary, particularly during the COVID-19 recession. Other job separations are permanent. In April 2025, temporary layoffs were 0.5 percent of the labor force. Permanent job losses were 1.1 percent of labor force.

## Unemployment by Reason

share of labor force, percent

	Apr 2025	Mar 2025	Feb 2025	12m Avg.	Apr 2020	2020	2019	2009 -'11
Unemployed, Any Reason	4.2	4.2	4.1	4.1	14.8	8.1	3.7	9.3
■ Job Loser	2.0	1.9	1.9	2.0	13.2	6.1	1.7	5.7
Temporary Layoff	0.5	0.5	0.5	0.5	11.6	4.0	0.5	0.9
Permanent Separation	1.1	1.1	1.0	1.0	1.3	1.7	0.8	3.9
■ Re-entrant	1.3	1.3	1.3	1.3	0.9	1.2	1.1	2.2
■ New entrant	0.4	0.4	0.4	0.4	0.2	0.3	0.4	0.8
■ Job Leaver	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.6

See also:

Employed, Not at Work*	2.9	3.0	2.9	3.4	7.4	4.2	3.2	3.3
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Source: Bureau of Labor Statistics, Author

\* During the COVID-19 shutdowns some unemployed were incorrectly counted as employed but not at work.

## Duration of Unemployment

US unemployment benefits are available for a relatively short duration, compared with other advanced countries. Therefore, the long-term unemployed risk running out of unemployment benefits, causing a sharp reduction in income. Additionally, long periods of unemployment can make re-entering the workforce more challenging.

As of April 2025, BLS [reports](#) that 0.62 percent of the age 16 and older population have been unemployed for 27 weeks or longer, compared to 0.47 percent in April 2024 (see —). This measure of **long-term unemployment** peaked at 2.96 percent of the population in April 2010, but had fallen to 0.42 percent in December 2019.

In April 2025, 1.05 percent of those age 16 and older have been unemployed for at least 15 weeks (see —), following 1.05 percent in March and 1.03 percent in February. One-year prior, in April 2024, 0.87 percent are unemployed for 15 weeks or more.

### Long-Term Unemployed

share of population, percent



Among those who are unemployed in April 2025, the average (mean) **duration of unemployment** is 23.2 weeks (see —), and the typical (median) duration of unemployment is 10.4 weeks (see —). Over the year prior to COVID-19, ending February 2020, the average duration of unemployment was 21.7 weeks and the typical duration was 9.2 weeks.

### Duration of Unemployment

in weeks





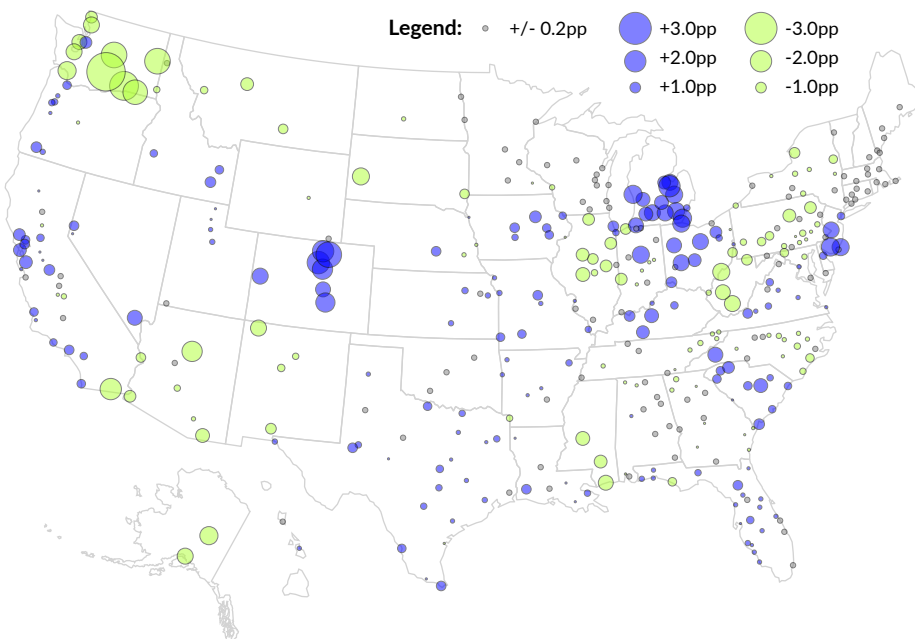
## Unemployment by Metro Area

The Bureau of Labor Statistics [produce](#) local area estimates of unemployment, including the **unemployment rate for metro areas**. The following map shows changes since 2019 in metro area unemployment rates. An increase in the unemployment rate is shown by a blue circle and a decrease is shown by a light green circle; circle size is the magnitude of the change.

From March 2019 to March 2025, unemployment rates fell by 0.3 percentage point or more in 114 metro areas, and increased by 0.3 percentage point or more in 164 metro areas. Recent local unemployment rates were within 0.2 percentage points of their pre-pandemic level in 73 metro areas.

## Change in Unemployment Rate by Metro Area

from March 2019 to March 2025, percentage points



### Largest MSAs:

	Core City	Mar 25	Mar 19	Labor Force	Pct Ch*
+0.7	● New York, NY	4.4	3.7	10,261,900	3.1
+0.9	● Los Angeles, CA	5.1	4.2	6,700,000	-1.4
+1.0	● Chicago, IL	5.3	4.3	5,049,300	3.2
+0.4	● Dallas, TX	3.8	3.4	4,534,800	17.2
+0.5	● Houston, TX	4.2	3.7	3,885,800	12.1
+0.4	● Washington, DC	3.5	3.1	3,551,700	2.3
unch.	● Atlanta, GA	3.6	3.6	3,307,900	6.7
unch.	● Philadelphia, PA	4.1	4.0	3,306,000	3.6
unch.	● Miami, FL	3.1	3.2	3,288,700	5.4
-0.6	● Phoenix, AZ	3.6	4.2	2,737,200	13.8
+1.2	● San Francisco, CA	4.1	2.9	2,530,100	-1.8

Source: Bureau of Labor Statistics; Full Table: [BX](#)

\*Pct Ch is percent change in labor force from March 2019 to March 2025

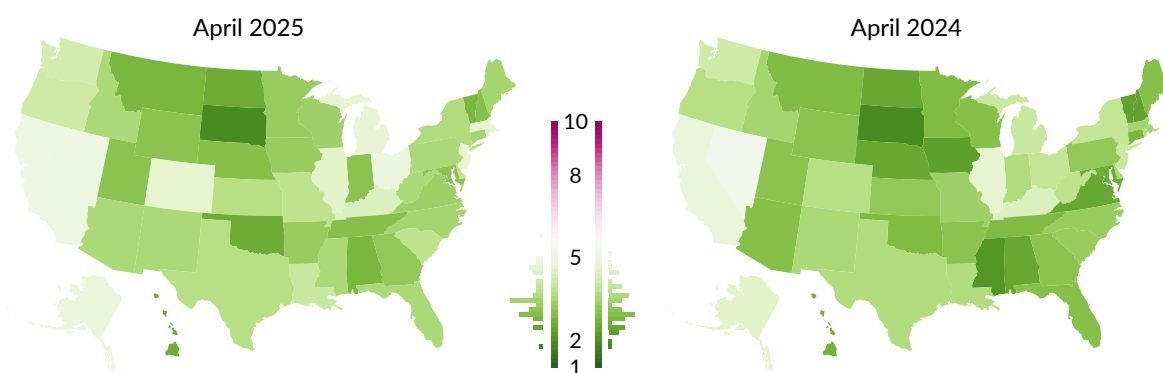
## Unemployment by State

The Bureau of Labor Statistics [report](#) the **state unemployment rate**—unemployed people as a share of the state labor force—each month, around three weeks after reporting the national unemployment rate. In April 2025, all 50 states and DC had unemployment rates below eight percent, and the unemployment rate was above five percent in one state. Three months prior, in January 2025, no states unemployment rate was above eight percent, and nine states were above five percent. In the peak of the COVID-19 pandemic shutdowns, in April 2020, the unemployment rate was above eight percent in 48 states, and above five percent in every state.

The states with the highest unemployment rates in April 2025 are the District of Columbia (5.8%), Nevada (5.0%), and California (5.0%). The states with the lowest unemployment rates are South Dakota (1.8%), Oklahoma (2.5%), and North Dakota (2.5%).

### Unemployment Rate by State

*unemployed share of labor force, percent, not seasonally adjusted*



Source: Bureau of Labor Statistics

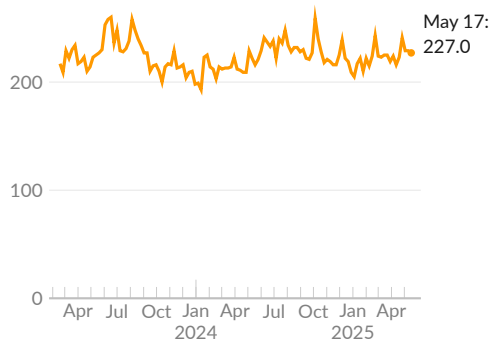


## Jobless Claims

Each week, the Department of Labor [present](#) the unemployment insurance (UI) claims reported by state unemployment offices. An initial claim for UI is filed by an unemployed person, after a separation from an employer, to determine eligibility for benefits.

### New Jobless Claims

*initial claims per week, thousands, seasonally adjusted*



Source: Department of Labor

In the week ending May 17, 2025, seasonally-adjusted initial claims for UI total 227,000 (see —), virtually no change from the previous week. Initial claims average 231,500 per week over the past four weeks, 226,800 per week over the past year, and 217,700 per week during 2019.

Initial claims are considered a leading indicator of labor market conditions. An increase in jobless claims suggests a deterioration in economic conditions.

The Labor Department additionally report continued claims for UI, also referred to as insured unemployment. Insured unemployment is the number of people receiving UI benefits during a given week.

### Insured Unemployed

*continuing claims, thousands, seasonally adjusted*



Source: Department of Labor

During the week ending May 10, 2025, seasonally-adjusted insured unemployment totals 1,903,000 (see —), an increase of 36,000 from the previous week. These continued claims average 1,887,500 over the past four weeks, 1,860,100 over the past year, and 1,682,300 during 2019.

UI only covers some workers. In April 2025, the Bureau of Labor Statistics classify 7.2 million people as unemployed, and identify another 5.5 million who want a job but do not count as unemployed.

## Jobless Claims

*thousands per week*

	<i>period averages</i>						
	May 17, 2025	May 10, 2025	May 3, 2025	Apr 2025	Mar 2025	May 2024	May 2023
Initial Claims (SA)	227	229	229	226	223	222	226
Initial Claims (NSA)	202	206	208	218	209	199	203
Continued Claims (SA)	–	1,903	1,867	1,873	1,863	1,798	1,724
Continued Claims (NSA)	–	1,789	1,770	1,890	2,078	1,678	1,606

Source: Department of Labor

## Labor Force Participation

Individuals who are employed, actively seeking employment, or on temporary layoff constitute participants in the labor force. The share of the US population that participates in the labor force at a given point in time, or the **labor force participation rate**, is affected by many factors, including demographic shifts and economic conditions.

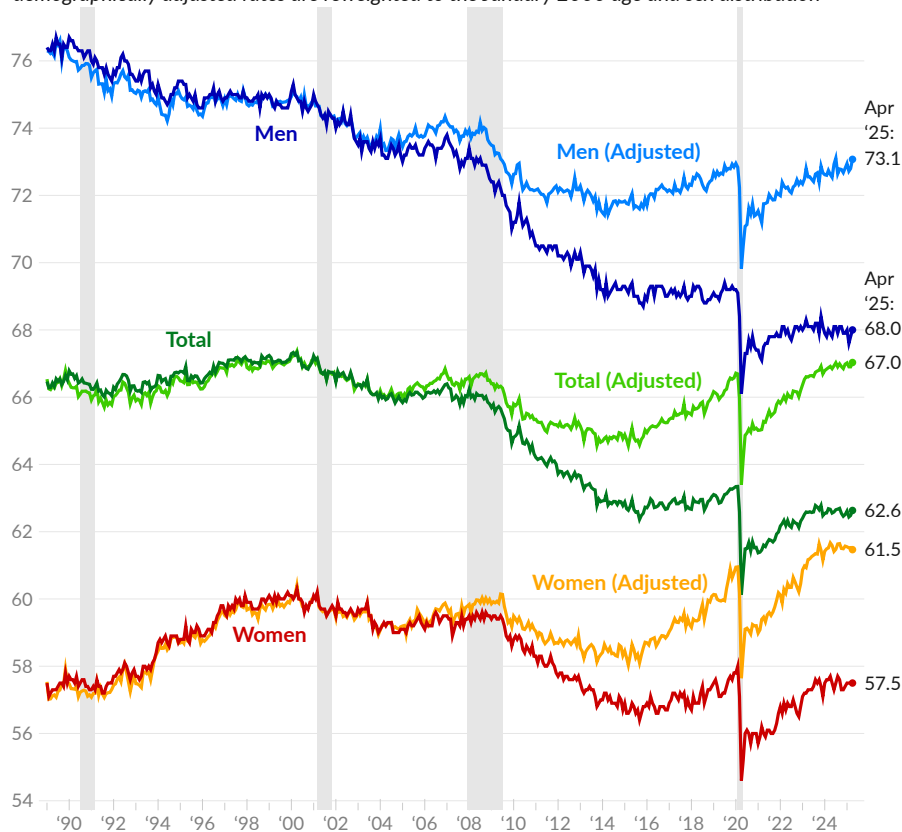
Over the past two decades, the age composition of the population has lowered labor force participation rates, all else equal. Reweighting the population to match the age composition in 2000 suggests the aging of the US population since 2000 has reduced total labor force participation by 4.4 percentage points.

As of April 2025, 62.6 percent of those aged 16 and over are part of the labor force (see —), following 62.5 percent in March and 62.4 percent in February. Pre-pandemic, in February 2020, the rate stood at 63.3 percent.

In April 2025, 68.0 percent of men age 16 and older are in the labor force (see —), compared to 57.5 percent of women (see —). Since February 2020, labor force participation has decreased 1.2 percentage points among men, and decreased 0.3 percentage point among women.

## Labor Force Participation Rate

*labor force as share of age 16 and older population, percent, seasonally adjusted  
demographically adjusted rates are reweighted to the January 2000 age and sex distribution*



Sources: BLS (Latest: April 2025); CPS (Latest: April 2025)



## Reasons for Labor Force Non-Participation

The Current Population Survey (CPS) asks those who are not employed or looking for work about their major activities and **reasons for not participating in the labor market**. [Answers](#) vary by age in intuitive ways, and are influenced by labor market conditions.

### Nonparticipants

share of age 16+ population, percent



Source: Author's CPS calculations

Nonparticipants age 16 and older total 101.8 million in April 2025, and make up 37.3 percent of the age 16 or older population, compared to 37.2 percent in April 2019. About half of nonparticipants, and 19.6 percent of the population, are retirees in April 2025 (see ■), compared to 18.0 percent in April 2019 (see ■).

Disability or illness keeps an additional 4.9 percent out of the labor force in April 2025, compared to 5.7 percent in April 2019. Students who are out of the labor force make up 5.8 percent in April 2025 and 6.1 percent in April 2019, while unpaid caregivers are 4.3 percent in April 2025 and 4.9 percent in April 2019.

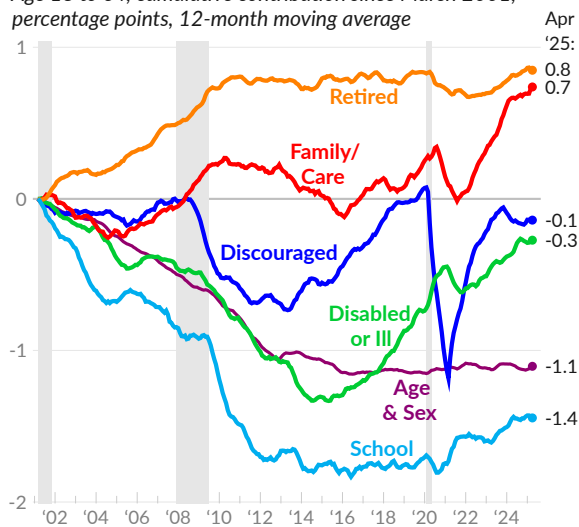
While the recession of 2001 appears mild in measures of expenditure, it was followed by a substantial reduction in the share of the population receiving labor income. The economy was losing jobs at an alarming rate long after the 2001 recession had officially ended, though labor market weakness was [partially masked](#) by a major housing bubble. Seven years after the recession of 2001, the housing bubble collapsed, causing the great recession, which pushed many more people out of the labor force.

From March 2001 to April 2025, a cumulative total of 1.6 percent of the age 18 to 64 population left the labor force. Demographic shifts partially account for this change. Notably, the sizable post-World War II birth cohort has been entering retirement age during this timeframe. Changes in the age and sex distribution within the age group explain 1.1 percentage points of the cumulative decrease in participation since March 2001 (see —).

Additionally, young people are staying in school longer, on average, reducing the age 18 to 64 labor force by 1.4 percent (see —). Disability and illness reduce the labor force by another 0.3 percent (see —). Less retirement among those age 18 to 64 increases participation by 0.8 percent, over the period (see —).

### Contribution to Labor Force Participation

Age 18 to 64, cumulative contribution since March 2001, percentage points, 12-month moving average



Source: Author's Calculations from CPS

Series in the chart are adjusted so that the distribution of the age 18 to 64 population by age and sex is constant and equal to its March 2001 value. The total effect of this adjustment on labor force participation is included separately in the chart, as [Age/Sex](#).

Young people's participation in the labor market, by working or looking for work, is affected by trends in educational attainment and by economic conditions. From 1994 to 2000, labor force participation among young people increased slightly. Following the recession of 2001, and carrying through the great recession, participation rates dropped sharply. From 2000 to 2014, labor force non-participation increased from 28.2 percent to 39.3 percent for 19 to 21 year olds and from 19.3 percent to 24.6 percent for 22 to 24 year olds (see —). The overall increase is nearly entirely accounted for by increased college enrollment (see —).

By February 2020, the labor market had improved and the annual non-participation rate was 38.3 percent for 19 to 21 year olds and 22.9 percent for 22 to 24 year olds. In the latest data, covering the 12 months ending April 2025, the rate of non-participation is 38.1 percent for 19 to 21 year olds and 24.1 percent for 22 to 24 year olds.

### Reason for Labor Force Non-Participation, by Age

share of age group population, percent, 12-month moving average



### Non-Participation Due to School

share of age group population, percent, 12-month moving average

	Apr 2025	Mar 2025	Feb 2025	Apr 2024	2019	2015	2010	1994
Total, 19 to 21	25.6	25.6	25.6	26.2	27.1	27.0	24.5	15.4
Men	25.2	25.2	25.1	26.5	26.6	27.0	24.2	15.8
Women	26.1	26.1	26.1	26.0	27.5	27.0	24.7	15.1
Total, 22 to 24	11.3	11.2	11.1	10.9	11.5	11.7	10.6	6.5
Men	11.4	11.3	11.3	11.3	11.7	12.0	10.8	6.7
Women	11.3	11.0	10.9	10.4	11.4	11.3	10.4	6.4
Total, 25 to 27	4.6	4.6	4.7	4.6	4.6	5.2	4.6	2.9
Men	4.2	4.2	4.3	4.2	4.7	5.0	4.4	2.5
Women	4.9	5.0	5.1	5.0	4.4	5.4	4.7	3.2

Source: Author's Calculations from CPS

## Labor Force Flows

The current population survey interviews households up to eight times over 16 months, allowing insight into the labor force status of the same individual over time, and in particular, into **flows between employment, unemployment, and other categories**. The Bureau of Labor Statistics [publish](#) many monthly indicators based on labor force flows, and others can be calculated directly from the public use data.

Among newly-employed workers, some were considered unemployed the month prior, while others were not in the labor force. In April 2025, 6.4 million people were newly employed (on a gross basis). Of these, 71.5 percent were not looking for work in the prior month (see —). Over the past three months, an average of 71.5 percent of the newly employed were not looking for work the month prior (see —).

When unemployment is low, the newly employed are more likely to come from outside of the labor force. Six years ago, in April 2019, 72.5 percent of the newly employed had not looked for work the previous month.

### Newly Employed, Not Previously Looking For Work

*share of newly employed that were not looking for work in the prior month*



The great recession worsened job-finding prospects for those not in the labor force (NILF) due to disability or illness. As a result, the flow into employment for people age 25 to 54 who are out of the labor force due to a disability or illness slowed considerably. These prospects first recovered to pre-recession levels around 2017.

Over the year ending April 2025, 8.6 percent of 25 to 54 year olds who were out of the labor force due to disability or illness one year prior became employed (see —).

Pre-pandemic, in 2019, 8.0 percent of those in the category found a job. The one-year rate of job-finding has increased substantially from its 2010–2013 average of 5.8 percent.

For those age 16 and older, the rate is 5.7 percent for the year ending April 2025 (see —), and 5.5 percent in 2019.

### Flow, Disability to Work

*one-year moving average, percent*



## Job Openings and Labor Turnover Survey

Healthy labor market **turnover** indicates that workers can readily find new employment if they are dissatisfied with their current jobs. Moreover, the availability of job opportunities outside a company can enhance the negotiating power of its employees. The Bureau of Labor Statistics [releases](#) monthly data on job openings, hires, and separations across various industry groups. *Separations* include layoffs, voluntarily leaving a job (*quits*), and other separations such as retirements, transfers to other locations, or separations due to death or disability.

In March 2025, there were 7.2 million total nonfarm job openings (see —) and 5.4 million hires completed (see —). In the same month, there were 5.1 million nonfarm separations, including 1.6 million layoffs (see —), 3.3 million quits (see —), and 247,000 other separations. In 2019, there were an average of 5.8 million hires completed and 5.7 million total separations, per month.

### Job Turnover

*job openings, hires, quits, and layoffs per month, in millions*



The number of people who voluntarily separate from a job in a given month, divided by the total number employed, is the **quits rate**. The rate typically increases when workers are confident enough to leave one job for another one, and a high quits rate, particularly in low-paying industries, can be a sign of a tight labor market.

### Quits Rate

*voluntary separations as share of workforce*



The quits rate is cyclical within the accommodations and food services industries (which includes restaurants), and tends to rise when a tight labor market pulls people out of restaurant jobs and into higher paying jobs in other industries.

In March 2025, the total quits rate in all industries was 2.1 percent (see —). The accommodations and food services quits rate was 4.4 percent (see —); the series high for the industry group was 6.4 percent in November 2021.



A high ratio of job openings to unemployed indicates a tight labor market, for example from low levels of unemployment, or if completing a new hire is taking more time. In March 2025, there were 7.1 million unemployed people and 7.2 million job openings, therefore the ratio of job openings per unemployed person was 1.0 (see —). In February 2025 the ratio was 1.1, and during 2019 the average ratio was 1.2.

### Job Openings Per Unemployed Person

*job openings divided by total unemployment*

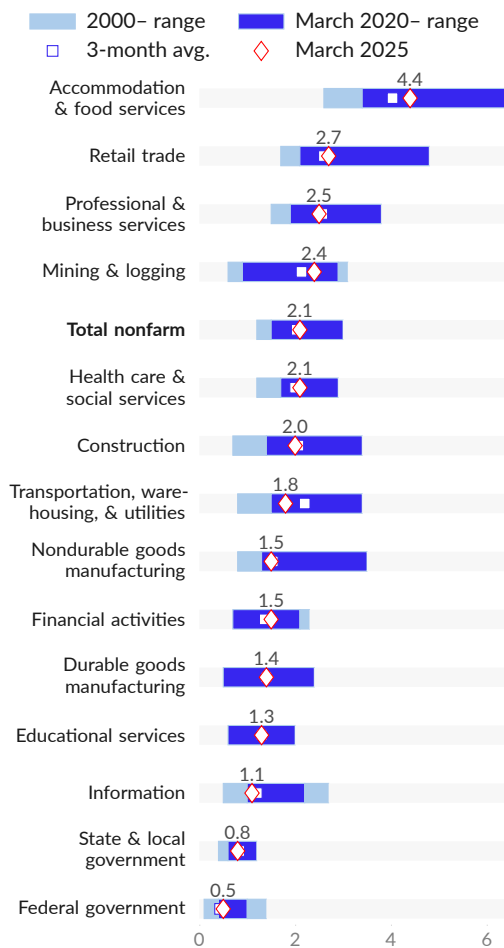


Source: Bureau of Labor Statistics



### Monthly Quits Rate by Industry

*share of employment, percent*

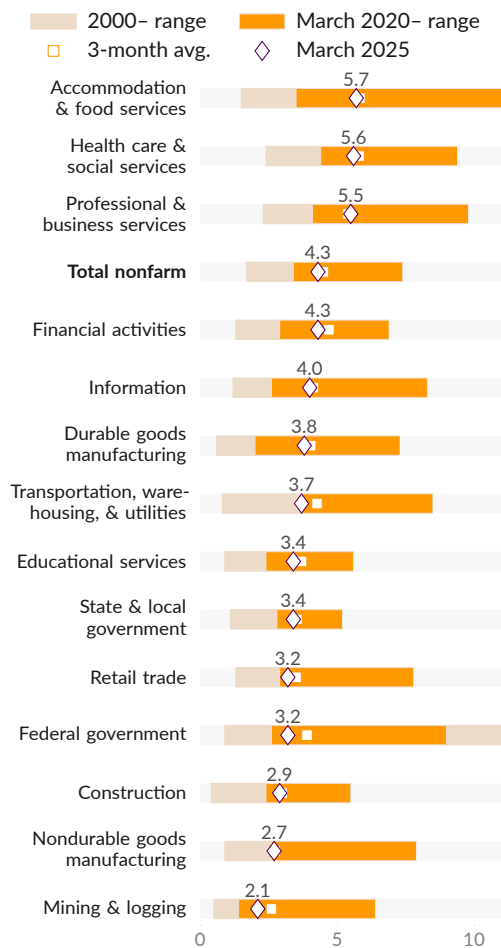


Source: Bureau of Labor Statistics



### Monthly Job Openings Rate by Industry

*share of employment, percent*



Source: Bureau of Labor Statistics



## Job Switching

Job switching is important for getting people into the jobs where they are most productive. Individuals boost labor productivity by switching to a more productive industry or moving from a less-productive firm to a more-productive firm.

The current population survey asks whether individuals have the same employer as they did the previous month. The rate at which people say they have **changed employers** had fallen to below two percent after the great recession, from an average of around three percent during the late 1990s.

More recent data show a slight increase in job switching rates. In April 2025, 2.0 percent of the workforce had a different employer than the previous month, after seasonal adjustment (see —). Smoothed data show an average of 2.1 percent of the workforce with a new employer during the three months ending April 2025 (see —). Prior to COVID-19, in 2019 Q4, a monthly average of 2.2 percent of the workforce switched jobs.

### New Employer

percent of workforce with different employer than prior month, seasonally adjusted



Source: Author's Calculations from CPS

## Expectations

The monthly Survey of Consumer Expectations from the Federal Reserve Bank of New York asks people how likely they are to either **lose or leave a job**. **Expected separations** are specifically the average perceived probability, or likelihood, of separating from a job in the next 12 months.

In April 2025, the perceived likelihood of leaving one's job voluntarily in the next 12 months averages 18.2 percent, compared to 21.0 percent in 2019 (see —). In the latest month, the perceived probability losing one's job is 15.3 percent, compared to 14.3 percent in 2019 (see —).

During the pandemic, in April 2020, job loss expectations exceeded job leaving expectations. In April 2025, job leaving expectations exceed job loss expectations by 2.9 percentage points, compared to 6.8 percentage points in 2019.

### Expected Separations

mean probability of separation, percent



Source: Federal Reserve Bank of New York

## Hours Worked

The Bureau of Labor Statistics (BLS) report **average hours worked per week** in both Current Employment Statistics (CES) and Labor Force Statistics (LFS), the two surveys used to produce the monthly jobs report.

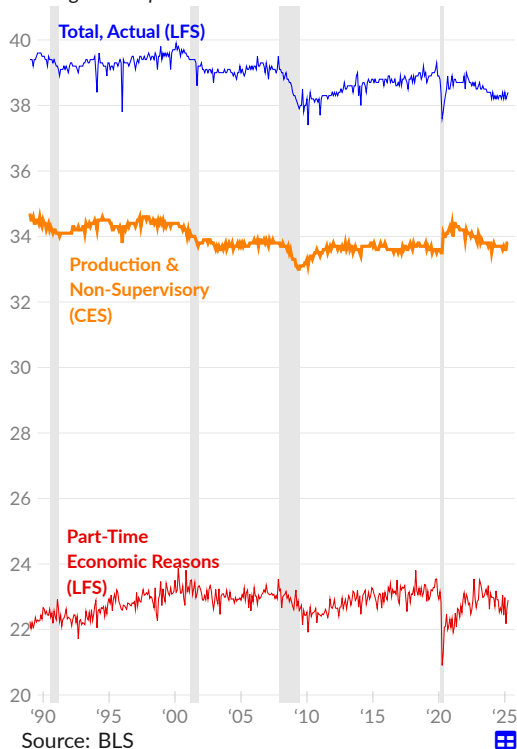
Actual hours worked by people at work in all industries during the survey reference week average 38.4 in April 2025 (see —), slightly below the 38.8 average actual hours worked in February 2020. Average actual hours for this group average 39.6 from 1998 through 2000, and fell to a great recession low of 37.4 in February 2010.

Those in service occupations work fewer hours on average, with 34.4 average weekly hours in April 2025, substantially below the 35.2 average in February 2020. Those part-time for economic reasons (see —) work an average of 22.9 hours per week in April 2025.

In April 2025, production and non-supervisory workers (see —), about four of every five employees, worked 33.8 hours per week on average, in line with the 33.6 average weekly hours in February 2020 and slightly below the 1998–2000 average of 34.4 hours.

### Hours Worked

average hours per week



### Hours Worked, Various Measures

average hours per week, seasonally adjusted

	Apr 2025	Mar 2025	Feb 2025	Apr 2024	2019	2015	2010
Total Actual, CES	34.3	34.3	34.2	34.2	34.4	34.5	34.1
Production & Non-Supervisory, CES (—)	33.8	33.8	33.6	33.7	33.6	33.7	33.4
Total Actual, LFS (—)	38.4	38.3	38.2	38.3	39.0	38.8	38.1
Part-Time for Economic Reasons, LFS (—)	22.9	22.7	22.2	22.7	23.2	23.0	22.4
Services Occupations, LFS	34.4	34.4	34.5	34.8	35.2	34.7	34.2

Source: Bureau of Labor Statistics, Author

## Aggregate Hours Worked

In addition to tracking the average hours that people work, economists are interested in **aggregate hours worked**, which combine the average workweek with the number of workers. The aggregate hours worked represent the total labor input of a sector. This subsection examines three measures of total hours worked per week.

First, the Bureau of Labor Statistics (BLS) [publish](#) a quarterly index of aggregate hours worked in nonfarm businesses (see [—](#)). The official productivity figures in the Productivity and Costs (LPC) report use this measure, which shows an annualized 0.8 percent increase in aggregate hours since 1989.

Next, The establishment survey (CES) can be used to calculate aggregate hours worked as average hours worked multiplied by the total number of workers. Aggregate hours for private production and nonsupervisory workers calculated using this method have increased 1.2 percent per year since 1989 (see [—](#)).

### Aggregate Hours Worked Per Week indexes, 2010=100



Finally, the Current Population Survey (CPS) shows hours of all workers, including the public sector, increased 0.9 percent per year since 1989 (see [—](#)).

Trends emerge when comparing between the aggregate hours measures. Production and nonsupervisory workers have most overall growth. In contrast, public sector hours have not kept up since the great recession, driving a wedge between hours for all workers and hours for private workers. This trend continued after the COVID-19 recession.

Lastly, let's look at quarterly changes in aggregate hours worked (see [■](#)). Total hours worked in nonfarm businesses increased at an annual rate of 0.6 percent in 2025 Q1, following increases of 0.8 percent in 2024 Q4 and 0.7 percent in 2024 Q3. From 2017 through 2019, total hours worked increased at an annual rate of 1.4 percent. Since 2019, hours worked have increased by 0.6 percent per year.

### Aggregate Hours Worked Growth

nonfarm businesses, quarterly growth at seasonally adjusted annual rate, percent



## Nonstandard Work Arrangements

Many workers do not have standard work arrangements, either by choice or as the result of not being able to find standard work arrangements. Many workers are employed part-time, part-year, or both. Some workers have more than one job. Additionally, a portion of the workforce is considered self-employed.

### Part-Time Work

Around 27 million people work part-time, defined as fewer than 35 hours per week, and the reasons for doing so vary. The Bureau of Labor Statistics classify part-time workers who would prefer full-time work as involuntary or **part time for economic reasons**. This group is comprised of people who don't have enough hours because of slack business conditions or who are unable to find full-time work.

Voluntary part-time workers, or those **part-time for non-economic reasons**, do not necessarily want more hours of work. The category includes those who work fewer hours for health, childcare, personal or family reasons, those who are retired or have a limit on earnings, and those with jobs where full-time is less than 35 hours per week.

#### Part Time, by Reason

percent of labor force



Source: Bureau of Labor Statistics

In April 2025, 4.7 million people worked part-time for economic reasons, equivalent to 2.7 percent of the labor force (see —). In 2019, an average of 2.7 percent of the labor force worked part-time for economic reasons. In 2010, following the great recession, the rate was 5.8 percent.

Voluntary part-time workers total 22.7 million in April 2025, or 13.3 percent of the labor force (see —). The category is 13.1 percent of the labor force in 2019, on average.

### More Than One Job

Over a given period of time, some people work more than one job. The household survey identifying people with more than one job asks about employment during a specific reference week. Respondents who work more than one job during the reference week are considered multiple jobholders; those who work multiple jobs over a month or year, but work one job in the survey reference week, are not.

#### Multiple Jobholders

percent of workers, 3-month moving average



Source: Bureau of Labor Statistics

In April 2025, a seasonally-adjusted total of 8.9 million people **worked more than one job** during the survey reference week, equivalent to 5.4 percent of workers. Over the three months ending April 2025, an average of 5.4 percent of workers were multiple jobholders (see —). In 2019, an average of 5.1 percent of workers had more than one job during the survey reference week.

## Self-Employment

Workers are considered **self-employed** if they work for profit or fees in their own business, profession, trade, or farm. Some self-employed have incorporated their business, and are similar to wage and salary workers in that they are paid by their business. Self-employment can offer more flexibility than traditional jobs, in some cases, but can also be less stable. The category includes people who work for profit but do not make any profits, for example.

As of April 2025, there are 9.9 million **unincorporated self-employed**, equivalent to 5.8 percent of the labor force (see —). Over the past year, the unincorporated self-employed made up an average of 5.8 percent of the labor force, compared to an average of 5.8 percent in 2019. From 1989 to 1994, the category made up an average of 8.0 percent of the labor force.

### Self-Employed percent of labor force



Source: Bureau of Labor Statistics, Author

The **incorporated self-employed** total 7.0 million in April 2025, equivalent to 4.1 percent of the labor force (see —). In 2019, the category made up 3.8 percent of the labor force.

Incorporated self-employed are not reported by BLS prior to 2000, but can be calculated from the CPS, and make up an average of 2.8 percent of the labor force from 1989 to 1994.

## Wages

Economists consider wages to be an important economic indicator. Wages are the majority of personal income and the main expense of businesses. Wage growth is particularly closely monitored as it affects quality of life and can affect inflation rates.

The US measures wages in several ways. As two examples, average hourly earnings comes from the monthly establishment survey, and usual weekly earnings are derived from three combined months of household surveys. This subsection first provides an overview of wage measures and recent results, and then discusses individual measures.

### Overview

The various US wage measures each have advantages; average hourly earnings from the payroll survey are timely and cover detailed industry groups, while median earnings from the household survey are unaffected by outliers and cover demographic groups.

Likewise, wage measures come with caveats. For example, both average and median wages are [subject to composition effects](#) during and after a recession. Low-wage workers are more likely to lose a job during a recession, and therefore move out of (and later into) the sample of a wage survey. This drives up the central tendency of wages during a recession and drives down the central tendency after a recession.

Illustrating the composition effect, several measures show nominal one-year wage growth of three to four percent during 2018 and 2019. During the COVID-19 recession in 2020, average hourly earnings (AHE) growth (see —) jumps to eight percent, while wage growth is stable when tracked (WGT) at the level of individuals (see - -), or calculated from the industry- and occupation-adjusted employment cost index (ECI, see —).

In the latest data, key measures show one-year nominal wage growth that is falling but still above the pre-pandemic rate.

### Wage Growth Measures

nominal one-year percent change



Source: BEA, BLS, Atlanta Fed



The following tables consolidate recent wage growth rates from different measures. In addition to measures discussed above, the table includes average wages and salaries per worker, calculated as national accounts aggregate wages and salaries divided by the number of employees on nonfarm payrolls.

### Wage Growth Measures

nominal one-year percent change

	Apr '25	Mar '25	Feb '25	Jan '25	Dec '24	Nov '24	Apr '24	Apr '23
Average Hourly Earnings (AHE), Private	3.8	3.8	3.9	3.9	4.0	4.2	4.0	4.6
Production & Nonsupervisory	4.1	3.9	4.2	4.0	4.0	4.1	4.0	5.2
Goods-Producing Industries	4.6	4.5	4.4	4.5	4.2	4.5	5.4	5.8
Service-Providing Industries	3.9	3.8	4.1	4.0	4.0	4.0	3.8	5.0
Usual Weekly Earnings, Median	6.6	4.6	5.9	5.9	4.6	5.6	3.6	6.2
Usual Weekly Earnings, Median (3M Avg)	5.7	5.5	5.5	5.4	4.7	4.0	3.0	5.4
Wage Growth Tracker, Median (3M Avg)	4.3	4.3	4.3	4.1	4.2	4.3	5.3	6.1
Wages & Salaries, Average (NIPA)	-	2.1	2.3	2.9	3.7	3.8	4.9	3.1
Wages & Salaries, Average (3M Avg)	-	2.4	3.0	3.5	3.8	3.7	5.3	2.7

Source: BLS, BEA, Federal Reserve Bank of Atlanta, Author



The second wage growth summary table captures quarterly measures, such as the ECI discussed above, which is particularly high-quality. Lastly, unit labor costs measure the cost a business pays to produce one unit of output.

### Wage Growth Measures

<i>nominal one-year percent change</i>	'25 Q1	'24 Q4	'24 Q3	'24 Q2	'24 Q1	'23 Q1	'22 Q1	'21 Q1
Wages & Salaries (ECI)	3.5	3.8	3.9	4.2	4.4	5.0	4.6	2.7
Usual Weekly Earnings, Median	5.0	4.0	4.2	3.9	3.5	6.2	5.0	3.5
Unit Labor Cost	1.3	1.9	1.7	2.3	3.4	2.9	6.0	0.6

Source: BLS



### Usual Weekly Earnings

The Bureau of Labor Statistics (BLS) [report](#) the **usual wages of full-time workers** at various points in the income distribution, including by decile and by quartile. The most commonly used of these measures is the median usual weekly earnings, which represents the middle wage; half of wages are above and half are below.

In the first quarter of 2025, median usual earnings of full-time wage and salary workers are \$1,194 per week, compared to \$1,139 per week in 2024 Q1, a nominal one-year increase of 4.8 percent (see [—](#)). In 2024 Q4, the median full-time worker receives \$1,192 per week, a one-year increase of 4.1 percent.

### Median Usual Weekly Earnings

*one-year growth, percent, full-time, wage and salary earners, age 16+*



Source: Bureau of Labor Statistics, Author's Calculations



The primary source for BLS quarterly estimates of usual weekly earnings is the [Current Population Survey](#) (CPS). Using the CPS, more-volatile monthly estimates can be calculated before the next BLS quarterly estimate ( [■](#) ) is available.

In April 2025, the median full-time worker receives \$1,219 per week, following \$1,203 per week in March and \$1,195 per week in February. The average over these three months is \$1,206 per week, a 5.7 percent increase over the same three months, one year prior (see [—](#)).

Median usual weekly earnings increased 6.6 percent over the year ending April 2025 (see [■](#) ), following increases of 4.6 percent in March and 5.9 percent in February.

### Median Usual Weekly Earnings

*one-year growth, percent*



Source: BLS, Author



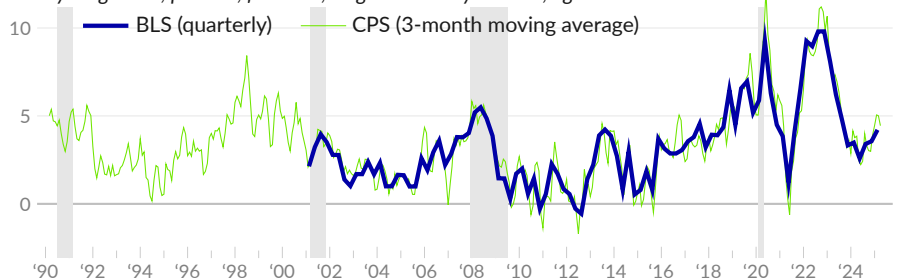


The income distribution also tells us the earnings of low-wage workers, represented here by the first decile. Only ten percent of workers earn less than the first decile wage. BLS [report](#) first decile usual earnings for full-time workers of \$619 per week in 2025 Q1 and \$594 per week in 2024 Q1, a nominal one-year increase of 4.2 percent (see —). Over the year ending 2024 Q4, first decile usual weekly earnings increased 3.6 percent.

The more-volatile CPS-based monthly measure shows first decile usual earnings of \$620 per week in April 2025, \$614 per week in March 2025, and \$635 per week in February 2025. The three-month average is \$623 per week; first decile earnings increased 4.4 percent over the same months, one year prior (see —). By month, over the year ending April 2025, first decile earnings increased 3.2 percent, following increases of three percent in March and 7.2 percent in February.

### First Decile Usual Weekly Earnings

one-year growth, percent, full-time, wage and salary earners, age 16+



Source: Bureau of Labor Statistics, Author's Calculations

The following tables present the BLS published estimates for usual weekly earnings of full-time wage and salary earnings. The first table presents the earnings in levels, and the second table shows the one-year percent change.

### Usual Weekly Earnings

full-time, wage and salary earners, age 16+, nominal USD

	2025 Q1	2024 Q4	2024 Q3	2024 Q2	2024 Q1	2023 Q1	2022 Q1	2021 Q1	2020 Q1
First Decile	\$619	611	607	596	594	574	531	486	468
First Quartile	814	805	790	776	772	739	701	657	630
Median	1,194	1,192	1,165	1,143	1,139	1,100	1,037	989	957
Third Quartile	1,895	1,876	1,858	1,836	1,812	1,751	1,635	1,563	1,513
Ninth Decile	2,905	2,884	2,892	2,810	2,820	2,718	2,512	2,424	2,320

Source: Bureau of Labor Statistics

### Weekly Earnings Growth

full-time, wage and salary earners, age 16+, one-year growth, percent

	2025 Q1	2024 Q4	2024 Q3	2024 Q2	2024 Q1	2023 Q1	2022 Q1	2021 Q1	2020 Q1
First Decile	4.2	3.6	3.4	2.6	3.5	8.1	9.3	3.8	5.9
First Quartile	5.4	3.7	4.8	4.7	4.5	5.4	6.7	4.3	4.1
Median	4.8	4.1	4.2	3.9	3.5	6.1	4.9	3.3	5.7
Third Quartile	4.6	6.3	5.1	5.8	3.5	7.1	4.6	3.3	4.3
Ninth Decile	3.0	5.2	4.0	3.9	3.8	8.2	3.6	4.5	2.4

Source: Bureau of Labor Statistics

## Wages and Education

The US has increasingly invested in education, boosting productivity and earnings. This subsection discusses the relationship between **wages and education**, over the long-term and in recent data.

Over the three months ending March 2025, the median usual earnings of full-time wage and salary workers age 25 to 54 average \$1,262 per week. After adjusting for inflation, median earnings have increased by 14.8 percent, in total, since 1989. Over this same period, which features a sharp increase in education in the US, labor productivity increased by 102.7 percent.

Not only is the long-term increase in median wages low, but some of the increase is explained by the median person having more education. Wage growth within education groups is lower than overall wage growth. Real median wages increased 11.1 percent over the same period for workers with a bachelor's degree or more, decreased 5.8 percent for workers with some college or an associate degree, and increased 1.6 percent for those with a high school degree or less.

### Real Earnings by Level of Education

median usual weekly earnings, full-time wage and salary workers age 25 to 54  
March 2025 dollars, adjusted using regional CPI-U, three-month moving average



Source: Author's Calculations from CPS

## Gender Wage Gap

Men are paid significantly more than women, both in general, and for a given job. The US **gender wage gap** has narrowed but is large and persistent. The US is not **expected** to achieve gender pay equality until 2053.

### Gender Wage Gap

women's median wage as a share of men's



Source: Bureau of Labor Statistics

In 1989, the gender wage gap was 30 percent; women were paid 70 cents for each dollar men were paid. From 1989 to 2006, the gap closed at a rate of 0.74 percentage point per year. From 2006 to 2019 Q4, the gap closed at a rate of only 0.04 percentage point per year.

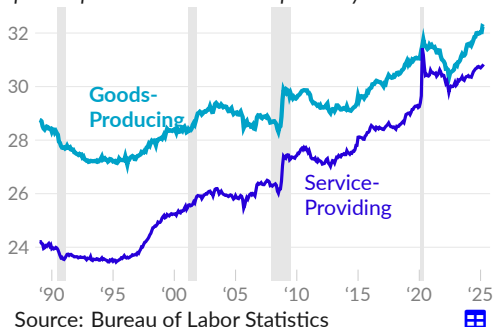
Over the year ending 2025 Q1, the gender wage gap is 17.2 percent; women are paid 82.8 cents on the dollar. Pre-pandemic, in 2019 Q4, the gap was 18.4 percent.

## Average Hourly Earnings

Each month, the Bureau of Labor Statistics [report](#) wages of employees on private nonfarm payrolls. The earnings data are also available for industries and for major sectors. Industry- and sector-level earnings are reported for production and non-supervisory workers, who make up about four in every five workers.

### Real Wages by Major Sector

*average hourly earnings, April 2025 dollars  
private production and non-supervisory workers*



Hourly wages for production and non-supervisory workers in private goods-producing sectors average \$32.23 in April 2025 (see —). In April 2019, the average hourly wage for the sector is \$30.85, after adjusting for inflation.

Private service-providing industry wages average \$30.83 for production and non-supervisory workers in April 2025. The inflation-adjusted equivalent is \$28.95 in April 2019 (see —).

### Growth Rate

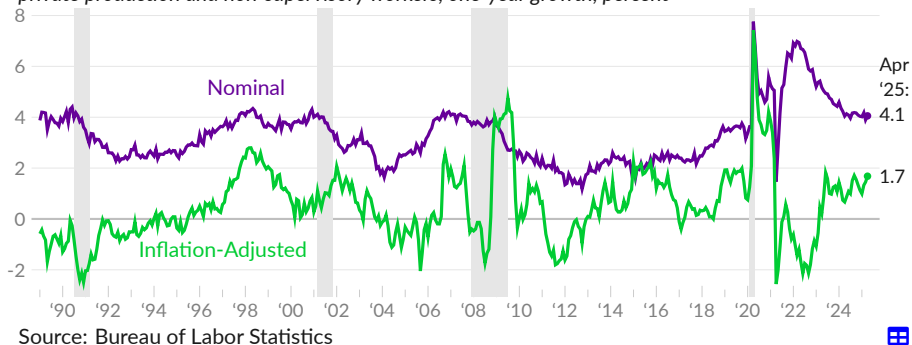
As with other measures of wages, economists are interested in the rate of wage growth. The following chart presents the one-year change in seasonally-adjusted average hourly earnings for private production and nonsupervisory employees on nonfarm payrolls. The chart includes both nominal, or unadjusted, wage growth and real, or inflation-adjusted wage growth, which is adjusted using the CPI-U.

Over the year ending April 2025, nominal average hourly earnings increased 4.1 percent for production and non-supervisory workers (see —), following increases of 3.9 percent in March and 4.2 percent in February. Comparing the latest three months to the previous three months, nominal earnings increased at an annual rate of 3.9 percent.

Real average hourly earnings increased 1.7 percent in April 2025 (see —), following increases of 1.5 percent in March and 1.3 percent in February. Real wages increased at an annual rate of 1.1 percent over the latest three months, compared to the previous three months.

### Average Hourly Earnings Growth

*private production and non-supervisory workers, one-year growth, percent*



While one-year wage growth rates are relatively less-volatile, the latest month of data only represents one-twelfth of the data that determines the rate. To help identify trends during recent months, the one-month growth rate is presented next.

Turning to **one-month growth**, in April 2025, nominal average hourly earnings for all private sector employees increased by 0.2 percent, following increases of 0.3 percent in March and 0.2 percent in February (see ■ ).

Adjusting for inflation shows one-month growth of -0.1 percent in April, an increase of 0.3 percent in March, and virtually no change in February (see ◇ ).



The average wage varies between **industry groups**. For production and nonsupervisory workers, the highest average hourly earnings in April 2025 are in the utilities industry (\$45.89), followed by the information industry (\$42.86), and the mining and logging industry (\$37.09). The lowest wage industries in the latest data, by average hourly earnings, are leisure and hospitality (\$20.02) and retail trade (\$21.44).

Over the past year, 10 of the 12 industry groups have wage growth above the increase in prices indicated by the consumer price index (see — ). The information industry had the fastest nominal growth rate, at 5.6 percent, followed by 4.8 percent in professional and business services and 4.7 percent in manufacturing.



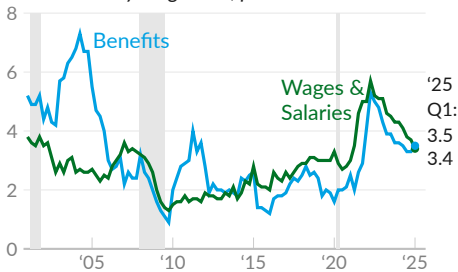
## Employment Cost Index

The Bureau of Labor Statistics [report](#) the overall hourly labor costs faced by employers, using an index that is not influenced by short-term changes in the industry and occupation composition of the US workforce. This **Employment Cost Index (ECI)** covers total compensation, wages and salaries, and benefits.

Benefits include health insurance, retirement, vacation, sick leave, and transportation benefits. Benefits access and participation vary, even within the same firm. The benefits costs in the index are averages [computed](#) across all workers, including the workers who do not have benefits.

### Employment Cost Index

private industry wage and salary workers  
nominal one-year growth, percent



Source: Bureau of Labor Statistics

Over the year ending 2025 Q1, private industry wage and salary costs increased 3.4 percent (see —), following increases of 3.7 percent in 2024 Q4 and 3.8 percent in 2024 Q3. In 2019, private wages and salaries increased by three percent.

The cost of private sector benefits increased 3.5 percent (see —) over the year ending 2025 Q1, following an increase of 3.3 percent in 2024 Q4. In 2019, private-sector benefits costs increased by two percent.

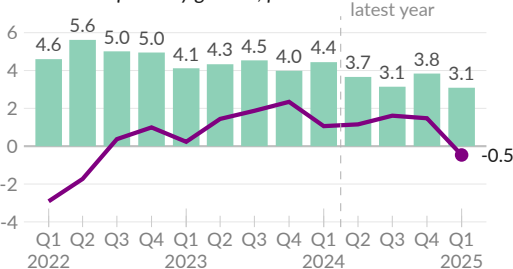
Quarterly ECI growth can highlight recent developments. Next, we examine seasonally-adjusted annualized quarterly wage and salary growth for all civilian workers.

In 2025 Q1, wages increased 3.1 percent, following increases of 3.8 percent in 2024 Q4 and 3.1 percent in 2024 Q3 (see ■). Growth is currently below the 2021 highs and above the pre-COVID average.

Adjusted for inflation using the PCE deflator, growth is negative 0.5 percent in 2025 Q1, following increases of 1.5 percent in 2024 Q4 and 1.6 percent in 2024 Q3 (see —). Real wage growth is below the long-term average.

### Employment Cost Index

wages and salaries, all civilian workers  
annualized quarterly growth, percent

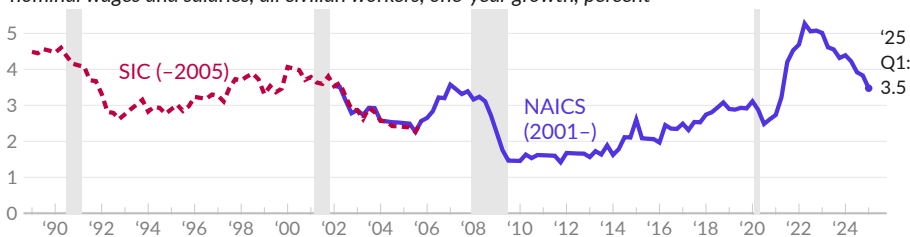


Source: Bureau of Labor Statistics

Lastly, longer-term trends in ECI wage growth can add context to recent developments. Prior to 2001, ECI growth is calculated using a different industry classification (SIC). Combining the two sets, one-year growth since 1989 is presented below.

### Employment Cost Index

nominal wages and salaries, all civilian workers, one-year growth, percent



Source: Bureau of Labor Statistics

## Wage Growth Tracker

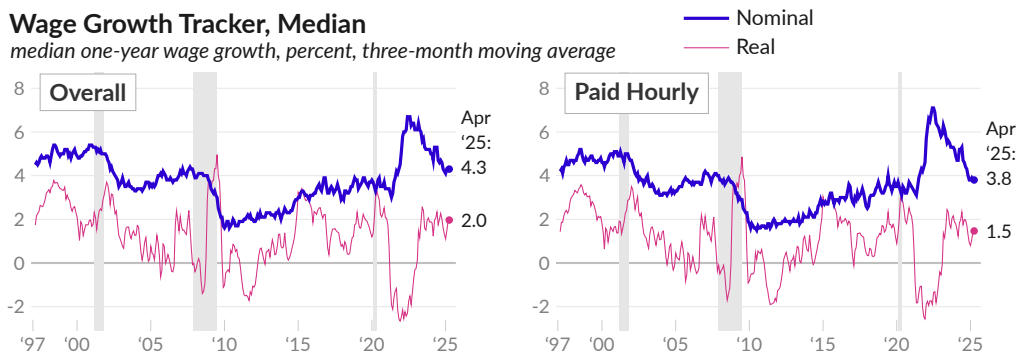
The Federal Reserve Bank of Atlanta [publish](#) a **wage growth tracker** that captures the distribution of one-year changes in the wages of the same people. This approach avoids some of the compositional changes that affect aggregate wage growth measures, though the sample used to calculate the data is affected by changes to respondents' employment status, and by survey response rates.

The wage growth tracker shows matched-observation nominal median wage growth of 4.3 percent over the three months ending April 2025, and 3.8 percent for workers paid hourly (see —). One year prior, in April 2024, three-month moving average nominal median wage growth was 5.3 percent, overall, and 5.2 percent for hourly workers.

The inflation-adjusted one-year median wage growth (see —) can also be calculated using the wage growth tracker approach. Real wages are deflated using the CPI-U. In April 2025, inflation-adjusted median wage growth is two percent overall, and 1.5 percent for hourly workers.

### Wage Growth Tracker, Median

*median one-year wage growth, percent, three-month moving average*



Source: FRB Atlanta, Census, BLS



## Zero Wage Change

By observing the same person's wage at two points in time, one year apart, we see how many people do not receive a wage increase. The Atlanta Fed measures this as the share of individuals who have one-year hourly wage growth of between -0.5 and 0.5 percent. The Atlanta Fed approach is replicated using CPS data, and smoothed with a three-month moving average.

In April 2025, 13.0 percent of individuals had no hourly wage growth, compared to 12.6 in March 2025 (see —). One year prior, in April 2024, 11.9 percent of individuals had no wage growth.

### Zero Wage Change

*share of individuals with one-year wage growth between -0.5 and 0.5 percent, three-month average*



Source: Federal Reserve Bank of Atlanta



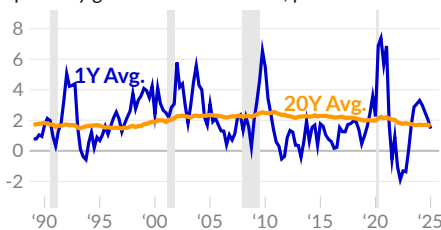
## Labor Productivity

Labor productivity is [reported](#) by the Bureau of Labor Statistics and measured as **real output per hour of work**. The measure captures the rate at which people, with all of the resources and equipment and infrastructure available to them, are able to work together to produce goods and services. Labor productivity growth means real wages can increase without putting upward pressure on inflation. Alternatively, an increase in productivity means a society can meet its material needs with less work.

Over the longer-term, US labor productivity growth averages two percent per year. The trailing 20-year average growth rate is 1.6 percent in 2025 Q1 (see —). During the 1990s and early 2000s, labor productivity growth was above its long-term average. In contrast, from 2010 to 2017, productivity growth was below average. Over the year ending 2025 Q1, growth averages 1.5 percent (see —).

### Labor Productivity Growth

quarterly growth at annual rate, percent



Source: Bureau of Labor Statistics

In 2025 Q1, nonfarm business labor productivity decreased at an annual rate of 0.8 percent (see ■), as the result of a decrease of 0.3 percent in real output and an increase of 0.6 percent in hours worked. In the prior quarter, 2024 Q4, labor productivity increased at an annual rate of 1.7 percent, as real output increased 2.5 percent and hours of work increased 0.8 percent. Productivity has increased at an annual rate of 1.1 percent over the past five years, substantially below the 1989-onward rate of two percent.

### Labor Productivity Growth

nonfarm businesses, quarterly growth at annual rate, percent



Source: Bureau of Labor Statistics

In the short-term, productivity growth is affected by changes in the composition of the workforce, and by volatility in both the number of hours worked and in production. In the longer-term, the level of business net investment in equipment and other capital goods, particularly relative to the size of the workforce, affects productivity growth. Such investment allows more goods and services to be produced by the same hours of work. Yet efforts to stimulate business investment directly through reducing corporate income taxes do not seem to have worked.

One theory of what drives long-term trends, sometimes called the *Kaldor-Verdoorn Law*, states that demand, and the capacity to meet that demand, determine productivity growth. An economy facing real resource constraints, where demand for goods and services exceeds the capacity to provide these services, is more likely to find ways to produce goods and services more efficiently. As one example, businesses invest more in labor-saving technologies when faced with a tight labor market.

## Productivity Growth Decomposition

The Bureau of Labor Statistics [reports contributions to nonfarm business labor productivity growth](#). Some portion of productivity growth can be explained by businesses adding capital such as equipment and IT improvements. Additionally, the age, education, and gender composition of the labor force changes over time, which affects the average output per hour of work.

In 2024, labor productivity increased by 2.7 percent (see [o](#)). Capital intensity contributed 1.1 percentage points (see [■](#)), and labor composition contributed 0.3 percentage point (see [■](#)). The remainder, called total factor productivity, added 1.3 percentage points (see [■](#)).

### Decomposition of Labor Productivity Growth

contribution to labor productivity, percentage points





## Union Membership

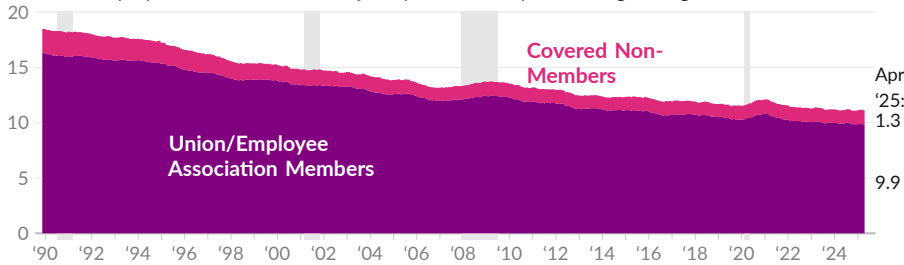
Membership in **unions and employee associations** has diminished in the United States over the past fifty years. Unionized jobs typically offer higher wages and better benefits and union membership tends to increase wages and benefits even in nonunion jobs. Research shows that lower union membership increases income inequality.

Over the 12 months ending April 2025, the union membership rate averaged 9.9 percent (see ■). The coverage rate, which includes nonmembers that are covered under a union contract, was 11.1 percent. During the 12-month period, an average of 131.0 million workers were not represented by a union, 14.3 million workers were union members, and an additional 1.9 million workers, or 1.3 percent of the workforce, reported no union affiliation but were covered by a union contract (see ■).

One year prior, over the 12 months ending April 2024, the union membership rate was 9.9 percent, and the coverage rate was 11.1 percent. From April 2024 to April 2025, the 12-month average number of nonunion workers increased by 0.6 million, while the number of workers represented by unions increased by 116,000.

### Union Membership and Coverage

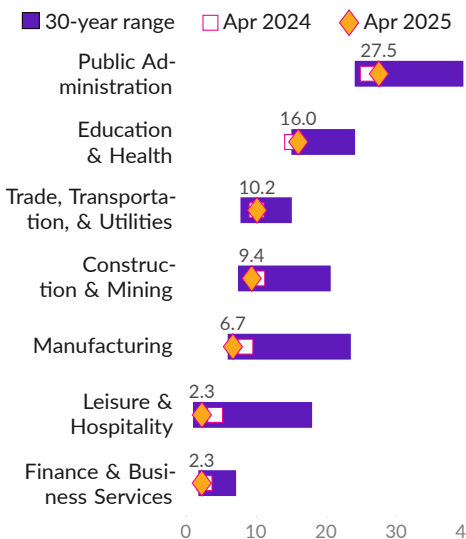
union or employee association share of jobs, percent, one-year moving average



Source: Author's Calculations from Current Population Survey

### Union Membership Rate by Industry

union or employee association member, percent



Source: Author's Calculations from CPS

Union membership rates vary substantially by industry. Public administration has the highest union membership rate, at 27.5 percent as of April 2025, followed by education and health with 16.0 percent, and trade, transportation, and utilities with 10.2 percent.

The manufacturing industry experienced the largest overall percentage point decrease in union membership rates over the past 30 years, and is currently 16.8 percentage points below its February 1989 rate of 23.5 percent.

The lowest union membership rate is in finance and business services (2.3 percent). The union membership rate of the industry was 7.2 percent at its 30-year peak in March 1992.

# Financial Markets

The US financial markets provide funding for borrowers' activities and offer potential income to lenders. The US equity and bond markets are the largest in the world, with daily trading volumes of several hundred billion dollars. This section discusses equity markets, interest rates and bond markets, and money and monetary policy.

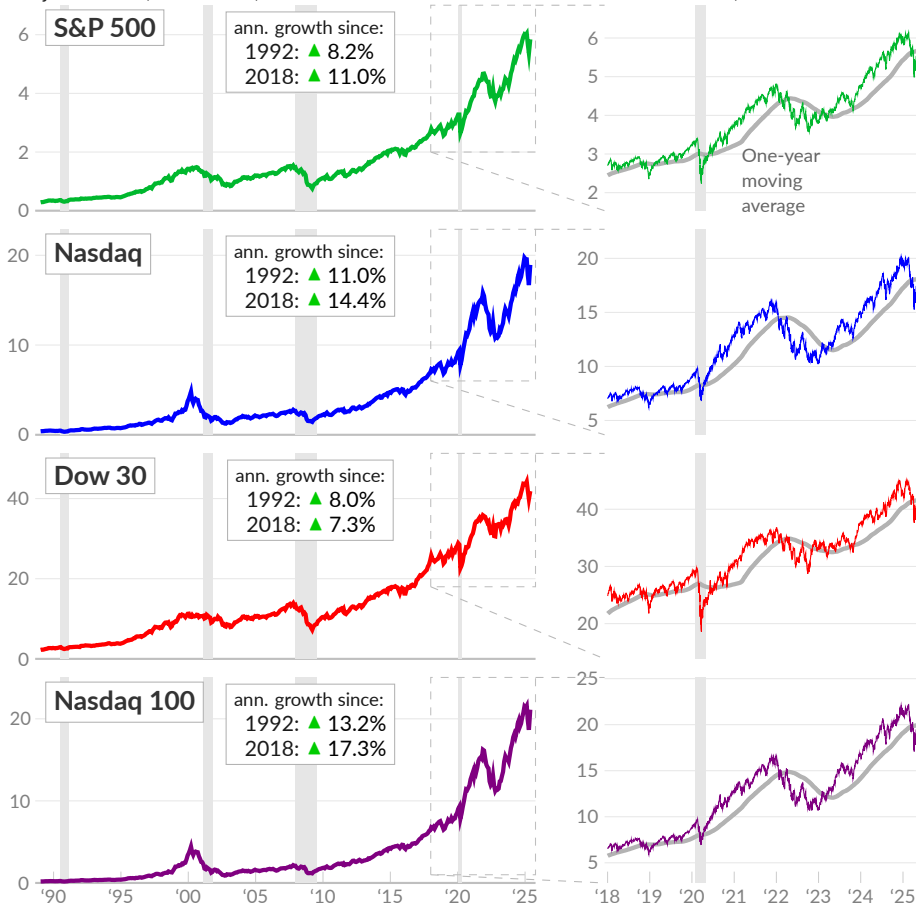
## Equity Markets

Equity markets, or **stock markets**, provide a method for businesses to raise capital by selling shares, which represent ownership claims on the business. Equity markets also provide a place for people to buy and sell existing shares. Investors purchase shares in hopes that the price will go up, allowing them to sell the shares at a higher price and receive capital gains, or to gain access to a stream of dividends, which are payments from businesses to shareholders.

In the US, several stock market indices track the share price of a basket of companies. These measures are weighted by the market capitalization of the companies in the basket, which is the share price multiplied by the number of shares. Market capitalization is the market value of a company. The following charts and tables capture the *adjusted* close price, which is adjusted to include splits, dividends, and capital gains distributions.

### Stock Market Indices

adjusted close, index value, in thousands



The **S&P 500** (see [—](#)) is a market-cap-weighted stock market index based on 500 large companies listed on US exchanges. As of May 22, 2025, the S&P 500 has increased at an annual rate of 8.2 percent since 1992, and 11.0 percent since 2018. The **Nasdaq** composite index (see [—](#)) includes nearly all companies listed on the Nasdaq stock exchange. The Nasdaq index increased at an annual rate of 11.0 percent since 1992, and 14.4 percent since 2018.

The **Dow 30** industrial average (see [—](#)) is an index based on 30 large and prominent companies listed on US exchanges. The measure is used as a proxy for the performance of the largest companies, and increased at an annual rate of eight percent since 1992 and 7.3 percent since 2018. Lastly, the **Nasdaq 100** (see [—](#)) captures only the largest 100 companies listed on the Nasdaq stock exchange as a proxy for large, disproportionately tech, companies. Since 1992, the Nasdaq 100 has increased at an annual rate of 13.2 percent. Since 2018, the measure increased at an annual rate of 17.3 percent.

### Stock Market Indices

<i>adjusted close</i>	<i>annual index returns, including dividends</i>							
	May 22, 2025	1-year moving average	2025 YTD	2024	2023	2022	2021	2020
<span>—</span> S&P 500	5,842	5,703	-0.7	23.3	24.2	-19.4	26.9	16.3
<span>—</span> Nasdaq	18,926	18,225	-2.0	28.6	43.4	-33.1	21.4	43.6
<span>—</span> Dow 30	41,859	41,740	-1.6	12.9	13.7	-8.8	18.7	7.2
<span>—</span> Nasdaq 100	21,112	20,111	0.5	24.9	53.8	-33.0	26.6	47.6

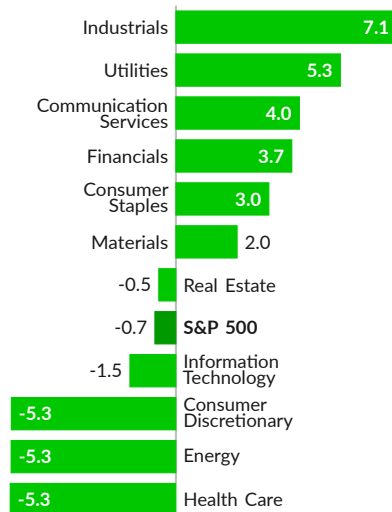
Source: STOOQ

### Sector Returns

The S&P 500 companies are broadly categorized into 11 industrial sectors, which are tracked independently. The largest sector is information technology, which makes up 30.3 percent of the index, by market cap, as of April 30, 2025. The financials sector makes up 14.5 percent, the health care sector makes up 10.8 percent, and the consumer discretionary sector makes up 10.3 percent.

#### S&P 500 Sector Returns

year to date, percent, as of May 22, 2025



Source: STOOQ

In the latest full year of data, 2024, the S&P 500 adjusted gain was 23.3 percent. The communication services sector returned 33.2 percent, the financials sector returned 28.4 percent, and the consumer discretionary sector gained 25.5 percent. The largest loss in 2024 was in the materials sector, with a total decrease of 1.6 percent.

As of May 22, 2025, the **year-to-date total return** for the S&P 500 is negative 0.7 percent. The health care sector lost 5.3 percent, the energy sector lost 5.3 percent, and the consumer discretionary sector lost 5.3 percent. The largest gain is in the industrials sector, with a total increase of 7.1 percent.

Over the past month, the S&P 500 has returned 7.1 percent. The information technology sector returned 12.3 percent, the industrials sector gained 11.3 percent, and the consumer discretionary sector returned 8.6 percent.

## Real Return

Next, for the typical investor saving for retirement, long-term and inflation-adjusted returns are particularly important. Over the long-term, US equities markets have traditionally returned around seven percent per year, after adjusting for inflation.

According to historical stock market [data](#) from Robert Shiller, the **inflation-adjusted trailing twenty-year annual rate of return** of the S&P 500 is 7.3 percent as of March 2025 (see [—](#)). Ultra-long-term real returns are currently low relative to the average trailing twenty-year real annual return of 10.1 percent during 1995–2005. The trailing ten-year real return was 9.0 percent, as of March 2025, and 10.7 percent during 1995–2005 (see [—](#)).

### S&P 500 Real Return



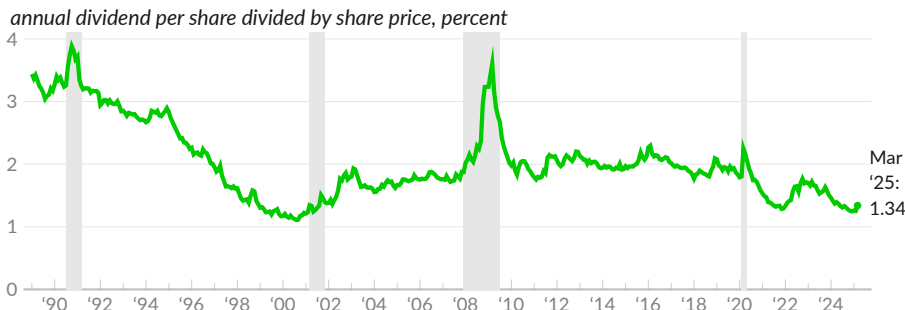
Source: Shiller, Baker, Author's Calculations

## Dividends

One component of total returns is **dividend payments to shareholders**. The dividend payments per share over the previous four quarters divided by the share price is the dividend yield. The S&P 500 dividend yield has averaged around two percent, over the past few decades.

In March 2025, the dividend yield for the S&P 500 is 1.34 percent (see [—](#)), compared to 1.25 percent in February 2025, and 1.37 percent in March 2024. From 1990 to 2015, the dividend yield averaged 2.09 percent.

### S&P 500 Dividend Yield



Source: Shiller

## Corporate Equity Payout

As seen above, investors achieve returns through price appreciation and dividends. Corporations, likewise, can return money to shareholders with dividends, or by repurchasing shares of their own stock. These share buybacks increase the share price, allowing investors to sell their shares at the higher price.

Investors like that share buybacks allow flexibility on the timing of tax payments. Dividends generate tax liabilities when the dividend is issued; share buybacks generate tax liabilities when the shares are sold. Additionally, corporations may prefer share buybacks over higher dividends because cutting dividends in the future would be viewed negatively.

The financial accounts [track](#) the **total payout from corporate equities**, which includes dividends and share buybacks. In the second quarter of 2023, nonfinancial corporation net dividends are equivalent to 2.7 percent of GDP (see ■) and net equities issuance is equivalent to 1.4 percent of GDP (see ■). In 2019, net dividends were 2.9 percent of GDP and net issuance was 1.6 percent. From 1990 to 2015, net dividends averaged 2.6 percent of GDP and net issuance averaged 1.2 percent.

## Corporate Equity Payout

nonfinancial corporation net dividends paid and net issuance of equities, percent of GDP



Source: Federal Reserve, Bureau of Economic Analysis



## Valuation

The [cyclically-adjusted price to earnings](#) (CAPE) ratio compares the current price of the S&P 500 to the previous ten-years of total S&P 500 returns, including dividends and buybacks (treated as dividends). Valuations often use recent or forecasted earnings. Robert Shiller's CAPE ratio covers ten years (a normal business cycle) so that valuations are less-affected by the idiosyncrasies of current economic conditions.

In May 2025, the Shiller total return CAPE ratio was 37.4, compared to 35.4 in April 2025 and 36.4 in May 2024 (see [—](#)). In 2019, the Shiller CAPE ratio was 32.1, on average. In 2000, during the stock market bubble, the ratio averaged 45.1.

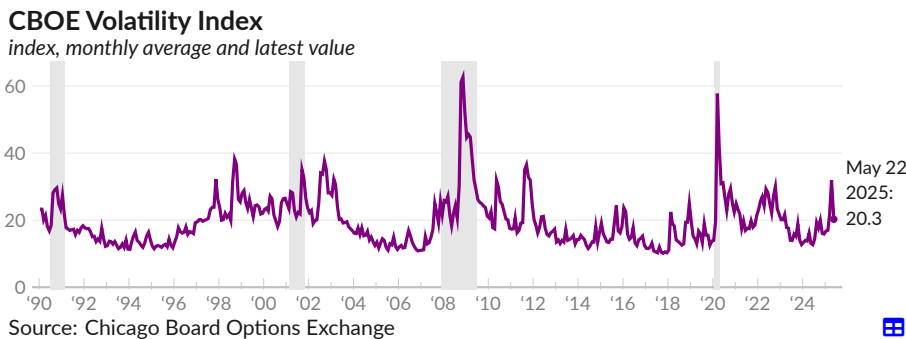


A second measure, Tobin's Q, is the ratio of market value to replacement value. A ratio below 100 means the market value is below the replacement value and stocks may be undervalued. A ratio above 100 means the market value is above the replacement cost and stocks may be overvalued. As of 2024 Q4, the ratio is 230.9 (see [—](#)), following 224.1 in 2024 Q3, and compared to an average of 170.6 in 2019.

## Volatility

The Chicago Board Options Exchange uses S&P 500 options data to [identify](#) expectations of future volatility. When investors are uncertain about the future, they will pay a premium for the insurance-like qualities of options. The CBOE volatility index, popularly known as the VIX, captures overall changes in options prices to identify the market-implied volatility in the S&P 500 index over the following 30 days.

The latest value for the VIX is 20.3 on May 22, 2025 (see [—](#)), in line with the average index value of 19.0 over the past three years, and in line with the typical index value of 17.6 since 1990. The VIX increased by 2.5 points over the past week.



## Interest Rates

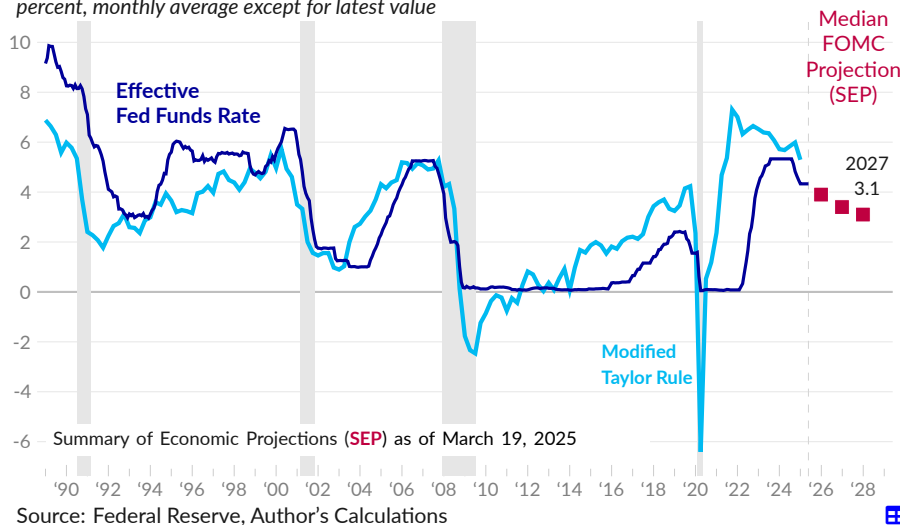
The US Federal Reserve System (Fed) has a congressional [mandate](#) to promote price stability and maximum employment. In practice, a Fed committee (the FOMC) determines the **federal funds rate**, which aims to influence interest rates in the broader economy. There are several channels through which interest rates affect broader economic activity, for example, lower interest rates stimulate investment in capital goods and the production of these capital goods employs people, who in turn spend their wages on other goods and services. Through its influence on interest rates, the Fed's monetary policy can aim to be neutral or to stimulate or slow the economy.

The FOMC cut [interest rates](#) three times in 2019, for a total reduction of 75 basis points. Responding to the economic shock of the coronavirus, the FOMC cut rates twice in March 2020, by 150 basis points, bringing the lower bound of the federal funds rate range to zero. With at near zero, the Fed adopted several additional measures to increase liquidity in the global financial system.

In March 2022, the FOMC raised the base interest rate by 25 basis points. In May 2022, the FOMC raised the base interest rate by another 25 basis points. In June, July, September and November 2022, the FOMC raised rates by 75 basis points, in each meeting, followed by a 50 basis point increase in December, and 25 basis point increases in February, March, May, and July 2023. The effective Fed funds rate is 4.33 percent, as of May 22, 2025 (see [—](#)).

### Federal Funds Rate

percent, monthly average except for latest value



Economist John Taylor described a rule for setting the federal funds rate based on inflation and output. Versions of this **Taylor rule** track the actual federal funds rate fairly closely during the 1990s and 2000s. Former Fed Chair Ben Bernanke [described](#) a modified Taylor rule based on core PCE inflation and a stronger response to the output gap (see [—](#)). As of the first quarter of 2025, the modified Taylor rule suggests a federal funds rate of 5.3 percent, 0.96 percentage point above the current rate.

FOMC meeting participants provide [projections](#) which can be used to summarize policymaker views on the future path of the federal funds rate, as seen by the people who set it. As of March 19, 2025, the median projected federal funds rate rate is 3.9 percent for 2025, 3.4 percent for 2026, and 3.1 percent for 2027 (see [■](#)).

## Treasuries

United States Treasury securities, or **treasuries**, are the asset created by federal government borrowing. The treasuries market is traditionally considered both very low-risk and highly liquid. As of April 2025, the public holds \$28.6 trillion in marketable treasuries.

From the 1980s to 2021, treasury yields fell considerably. The annual yield on ten-year treasuries (see —) fell from 8.49 percent in 1989 to 0.62 percent in July 2020. As of May 22, 2025, ten-year treasury bonds yield 4.54 percent, an increase of 0.12 percentage point from the year prior.

Short-term treasury yields more-closely track the base interest rate set by the Federal Reserve. Three-month treasury bills (see —) return an annual rate of 8.39 percent in 1989 but pay virtually no interest from 2009 to 2016. As of May 22, 2025, three-month treasuries yield 4.37 percent, a decrease of 1.09 percentage points from the year prior.

### Treasury Constant Maturity Yields

percent, annual rate



Source: Federal Reserve

### Selected US Treasury Rates

constant maturity yield, percent

period averages

	May 22, 2025	May 21, 2025	May 16, 2025	Apr 2025	May 2024	2019	2010 -'13	1998 -'00	1989
One-month	4.37	4.35	4.37	4.35	5.50	2.12	0.07	–	–
Three-month	4.37	4.36	4.37	4.32	5.45	2.11	0.08	5.23	8.39
Six-month	4.34	4.33	4.30	4.20	5.42	2.11	0.13	5.38	8.48
One-year	4.13	4.13	4.13	3.95	5.16	2.05	0.20	5.42	8.53
Two-year	4.00	4.00	3.98	3.78	4.86	1.97	0.43	5.61	8.57
Three-year	3.99	4.00	3.95	3.78	4.66	1.94	0.70	5.62	8.55
Five-year	4.11	4.15	4.06	3.91	4.50	1.95	1.35	5.62	8.50
Seven-year	4.32	4.37	4.24	4.08	4.49	2.05	1.93	5.76	8.52
Ten-year	4.54	4.58	4.43	4.28	4.48	2.14	2.54	5.65	8.49
Twenty-year	5.05	5.08	4.92	4.74	4.71	2.40	3.33	6.05	–
Thirty-year	5.05	5.08	4.89	4.71	4.62	2.58	3.63	5.80	8.45

Source: Federal Reserve



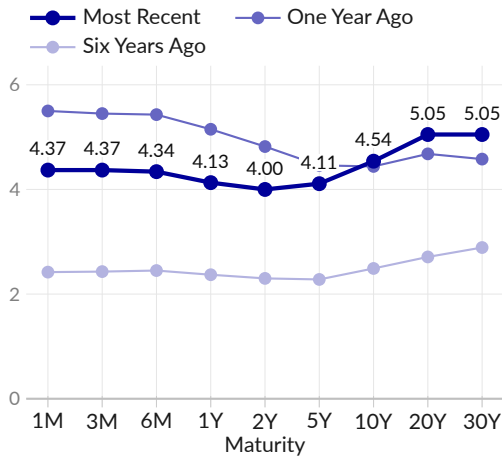
## Yield Curve

The **yield curve** arranges the **interest rates** of US Treasury bills and bonds along a line, from shortest duration to longest duration. This yield curve summarizes the term structure of interest rates, how much it costs to borrow for different periods of time, and is considered an indicator of how markets view short-term economic conditions relative to longer-term conditions.

The yield curve is normally upward sloping as investors expect to be compensated for lending for a longer period of time. The shape of the yield curve changes over time and is affected by several factors, including the term premium, Federal Reserve policy, and expectations about future inflation. The curve can become steeper, for example, if interest rates or inflation is expected to be higher in the future.

### Treasury Yield Curve

constant maturity yield, percent, May 22, 2025



Source: Federal Reserve

The yield curve can also become *inverted* when yields on shorter-term debt are higher than yields on longer-term debt. An inverted yield curve can signal worsening economic conditions. For example, short term rates may exceed longer-term rates if the Federal Reserve is expected to lower interest rates in the future, or if inflation is expected to fall due to weakened economic conditions.

Since 1989, the US has entered into four recessions and the 10-year to 2-year segment of the yield curve has newly inverted six times. The most recent such inversion started on April 1, 2022.

## Yield Spread

Another summary measure of the term structure of interest rates is the difference, or *spread*, between interest rates of treasuries with different maturities. **Yield spreads** can be used to track changes in the term structure of Treasuries, over time.

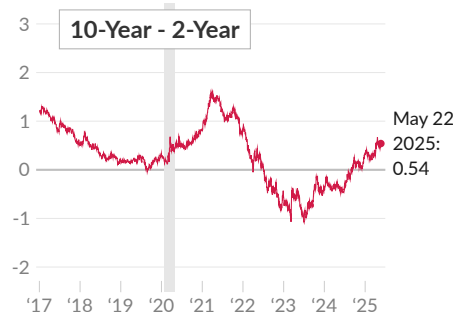
As of May 22, 2025, the spread between a 10-year treasury bond and a three-month treasury bill is 0.17 percentage point (see —), compared to negative 1.01 percentage point one year prior. The spread between 10-year and 2-year treasuries (see —) is 0.54 percentage point on May 22, 2025, and negative 0.38 percentage point one year prior.

### Treasury Yield Spreads

percentage points



Source: Federal Reserve



## Changes in Treasury Yields

Changes in nominal treasury yields can be **decomposed into changes in expected inflation and changes in real yields**. Changes in real yields reflect changes in expected path of the federal funds rate and the economic outlook. Federal Reserve Bank of Cleveland models [identify](#) inflation expectations across the term structure, which can be used to identify changes in real yields.

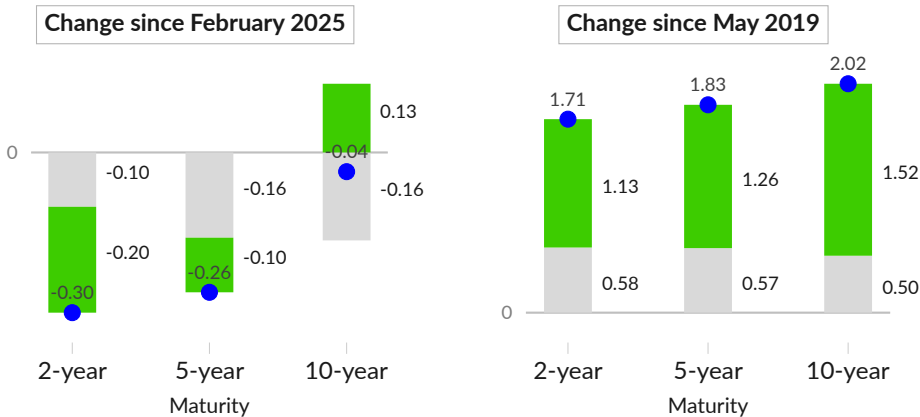
Over the three months ending May 2025, nominal two-year treasury yields decreased 0.30 percentage point, real yields decreased 0.20 percentage point, and inflation expectations decreased 0.10 percentage point. Ten-year treasury nominal yields decreased 0.04 percentage point, real yields increased 0.13 percentage point, and inflation expectations decreased 0.16 percentage point.

Over the five years ending May 2025, the nominal yield on two-year treasuries increased 1.71 percentage points, the real yield increased 1.13 percentage points, and inflation expectations increased 0.58 percentage point. For ten-year treasuries, the nominal yield increased 2.02 percentage points, the real yield increased 0.13 percentage point, and expected inflation increased 0.50 percentage point.

### Decomposition of Recent Changes in Treasury Yields

percentage points

Real Yields Inflation Expectations Total



Latest data from model as of: May 2025

Source: Federal Reserve, Federal Reserve Bank of Cleveland



## Real Interest Rates

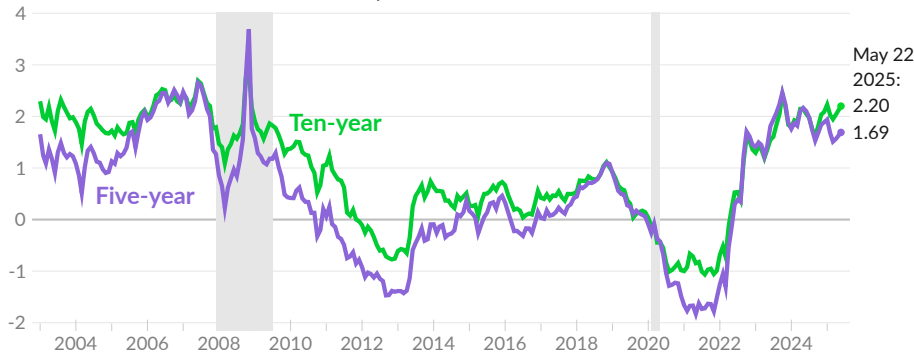
Real interest rates, which are adjusted for expected inflation, can offer insight into economic and financial conditions. Low real interest rates encourage borrowing and consumption and increased economic activity while high real interest rates discourage borrowing and encourage saving.

One measure of real interest rates comes from Treasury inflation-indexed securities. The yield on these securities can be a proxy for the interest rate investors would charge for treasuries, without inflation.

As of May 22, 2025, the real yield on ten-year treasuries is 2.20 percent (see —), compared to 2.08 percent three months prior, on February 19. Five-year treasuries yield 1.69 percent in the latest data, and 1.71 percent three months prior, after adjusting for expected inflation (see —).

### Real Treasury Yields

*derived from inflation-indexed treasuries, percent*



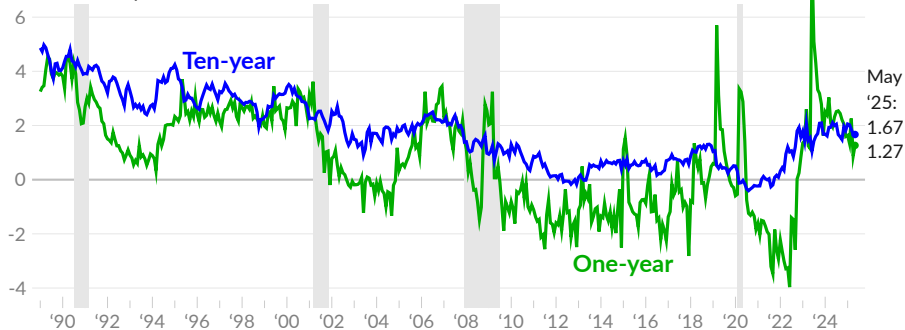
Source: Federal Reserve

The previous approach has limitations, as the market for treasury inflation-indexed securities is relatively small and can be influenced by monetary policy. The Cleveland Fed model estimates real yields across the term structure, using a model based on treasury yields, inflation, and financial-market- and survey-based information, and avoids some limitations of the previous approach.

The model-based real yield on ten-year treasuries is 1.67 percent, as of May 2025 (see —). Ten-year treasury real yields averaged 3.30 percent during the 1990s. The model-based real yield for one-year treasuries is 1.27 percent in May 2025, compared to an average of 2.21 percent during the 1990s (see —).

### Real Treasury Yields

*model-based, percent*



Source: Federal Reserve of Bank of Cleveland

## Corporate Bonds

The US Treasury [publish](#) a yield curve for **corporate bonds** based on the market-weighted average of bonds rated AAA, AA, and A. The yield on high-quality corporate bonds with a maturity of 10 years is 5.33 percent in April 2025, following 5.21 percent in March 2025 (see [—](#)). One year prior, in April 2024, this spot rate was 5.40 percent, and five years prior, in April 2020, it was 2.77 percent.

### High Quality Corporate Bonds, 10-Year

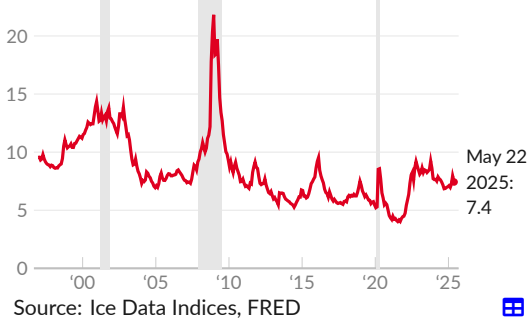
spot rate, percent, monthly average



Corporate bonds rated below investment grade (a rating below BBB) are [tracked](#) by the ICE BofA high yield index. As of May 22, 2025, the effective yield for **high-yield corporate bonds** in the index is 7.4 percent (see [—](#)). In March 2025, the average effective yield was 7.2 percent. Prior to the COVID-19 pandemic, in 2019, the average effective yield was 6.1 percent.

### ICE BofA High Yield Index Effective Yield

percent



## Mortgage Rates

The **mortgage rate** [available](#) to homebuyers can affect housing markets, which in turn can affect demand for construction materials and for consumer goods. As of May 22, 2025, the average 30-year mortgage rate is 6.86 percent, compared to 6.84 percent in February 2025, and 7.06 percent in May 2024 (see [—](#)). In 2019, the average rate was 3.93 percent.

### Mortgage Rate

average for 30-year fixed rate mortgages, percent



## Money and Monetary Policy

The Federal Reserve [publishes](#) data on the **money supply**. A broad measure of the amount of money, called M2, includes cash and deposits such as savings accounts and checking accounts, as well as time deposits smaller than \$100,000, and retail accounts in money market funds.

In March 2025, the M2 money stock totals \$21.9 trillion. Put into the context of overall economic activity, M2 is equivalent to 72.5 percent of GDP in the first quarter of 2025.

During the 1990s, the ratio of money to economic activity was falling (see —). Following the great recession, the money supply has expanded relative to activity. Since 1989, the ratio has increased by a total of 28.2 percent.

### M2 to GDP Ratio

index, 1989=1



A large increase in the amount of money held by individuals and institutions can be the result of a higher rate of saving, a larger government sector financial deficit, an increase in the money supply, a change in preferences for liquidity, or something else.

The M2 money stock increased 1.4 percent in March 2025, over the previous month, following a decrease of 0.1 percent in February, and virtually no change in January. Over the past 12 months, the money stock increased 4.2 percent (see —). The M2 money stock has increased 36.4 percent, in total, over the past five years.

### M2 Money Stock Growth

not seasonally adjusted, one-year percent change



Source: Federal Reserve

## Fed Asset Purchases

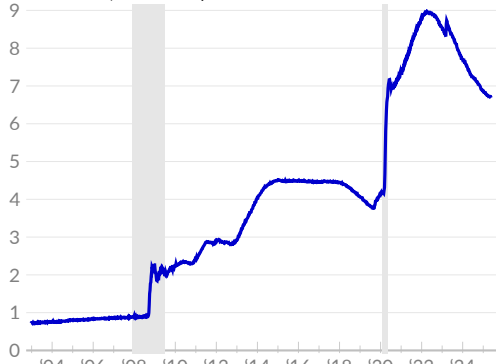
During periods where the Fed funds rate is at or near zero the Fed has engaged in **large scale asset purchases** in an effort to further improve financial market conditions. These asset purchases show up on the Fed balance sheet, which is [reported](#) weekly.

In response to the collapse of the housing bubble, the Fed purchased US Treasury bonds and mortgage-backed securities. Total assets held by the Federal Reserve (see [—](#)) increased from \$0.9 trillion in August 2008 to \$2.2 trillion in November 2008. Additional rounds of asset purchases, referred to as quantitative easing, increased the balance sheet to \$4.5 trillion by January 2014. The Fed replaced maturing bonds until balance sheet normalization began in October 2017. By August 2019, total assets fell below \$3.8 trillion.

Balance sheet normalization ended in September 2019 when the Fed increased operations in overnight and term repurchase agreement (repo) markets, following a sharp increase in rates in these markets. The Fed balance sheet increased to \$4.1 trillion by December 2019.

### Federal Reserve Balance Sheet

*total assets, trillions of US dollars*



Source: Federal Reserve

During the COVID-19 pandemic, the Fed offered lending to businesses and currency swaps to major US trading partners, began to purchase commercial bonds, and expanded purchases of treasuries and mortgage-backed securities.

The Fed balance sheet increased from \$4.2 trillion in February 2020 to \$9.0 trillion in April 2022. As of the latest data, covering May 21, 2025, the Fed balance sheet is \$6.7 trillion. The Fed currently holds \$4.2 trillion in Treasuries and \$2.2 trillion in mortgage-backed securities.

### Federal Reserve Assets

*billions of US dollars*

	May 21, 2025	May 14, 2025	Apr 23, 2025	May 22, 2024	May 24, 2023
<b>Total (see <a href="#">—</a>)</b>	\$6,688.7	6,713.3	6,726.9	7,299.6	8,436.3
US Treasury Securities	4,213.5	4,216.4	4,217.7	4,488.8	5,195.0
Mortgage-Backed Securities	2,169.3	2,172.9	2,185.4	2,368.2	2,570.4
Central Bank Liquidity Swaps	0.0	0.0	0.1	0.1	0.4
Repurchase Agreements	0.0	0.0	1.0	0.0	0.0
Loans	3.7	4.0	4.9	118.6	296.9
Payroll Protection Program	1.8	1.8	1.8	2.9	8.1
Net Unamortized Premium	215.7	216.7	218.0	242.0	272.0
Other	84.8	101.5	98.0	78.9	93.5

Source: Federal Reserve

## Prices

The price of goods and services determine how much can be purchased by a fixed income. Researchers are interested in the prices of specific goods, as well as changes in purchasing power, more generally.

To summarize changes in purchasing power, researchers create a representative “basket” of relevant goods and services, and then track changes in the basket, and changes in the price of the basket, over time. The end result is a price index, which can be used to calculate the rate of inflation.

Inflation is typically calculated as the 12-month percent change in the price index. This annual inflation rate measures how prices in a given month compare to prices during the same month, one year prior. The 12-month inflation rate, based on various price indices, is presented in the following table.

### Price Growth, Various Measures

one-year growth, percent

	Apr '25	Mar '25	Feb '25	Jan '25	Apr '24	Apr '23	'17-19 Avg.	'00-Avg.
CPI, All Items	2.3	2.4	2.8	3.0	3.4	4.9	2.1	2.6
CPI, ex. Food & Energy	2.8	2.8	3.1	3.3	3.6	5.5	2.1	2.4
PPI, Final Demand	2.4	3.4	3.4	3.8	2.3	2.3	2.3	2.6
Imports Price Index	0.1	0.8	1.7	1.7	1.0	-4.9	1.6	1.9
Exports Price Index	2.0	2.6	2.6	2.8	-0.8	-6.0	1.6	1.8
PCE, All Items	-	2.3	2.7	2.6	2.7	4.5	1.7	2.2
PCE, ex. Food & Energy	-	2.6	3.0	2.7	2.9	4.8	1.7	2.1
PCE, Trimmed Mean	-	2.5	2.6	2.6	3.0	5.0	1.9	2.2

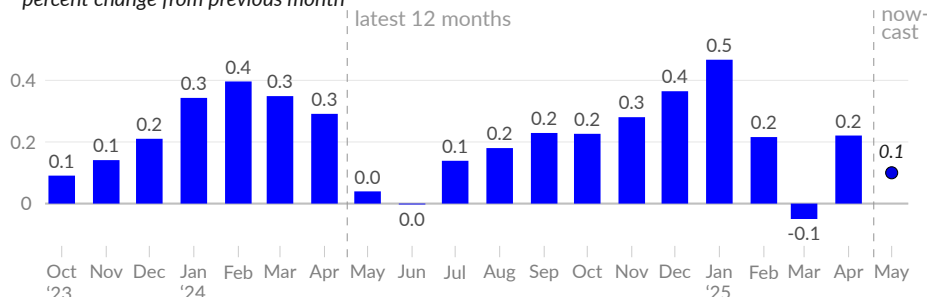
Source: BLS, BEA, Federal Reserve Bank of Dallas

In effect, the 12-month percent change in prices is smoothed, relative to the one-month change, by including information on price changes that happened over the past year. While the chartbook uses less-volatile 12-month inflation rates in most cases, the **one-month rate** can be more useful for examining short-term trends, for example by eliminating the base effects from changes in prices a year ago.

In April 2025, the one-month change in the consumer price index (CPI) was 0.2 percent (see ■), following -0.1 percent in March 2025. The Cleveland Fed [nowcasts](#) current inflation by combining recent inflation data with current oil and gasoline prices. As of May 23, the May 2025 nowcast is 0.1 percent (see ●).

### CPI One-Month Change

percent change from previous month



Source: Bureau of Labor Statistics, Federal Reserve Bank of Cleveland

## Consumer Price Index

Consumer prices increased 2.3 percent over the year ending April 2025 (see —), according to the Consumer Price Index for all urban consumers (CPI-U). The core CPI, which does not include the more-volatile food and energy prices, increased 2.8 percent over the same one-year period (see —).

### Consumer Price Index



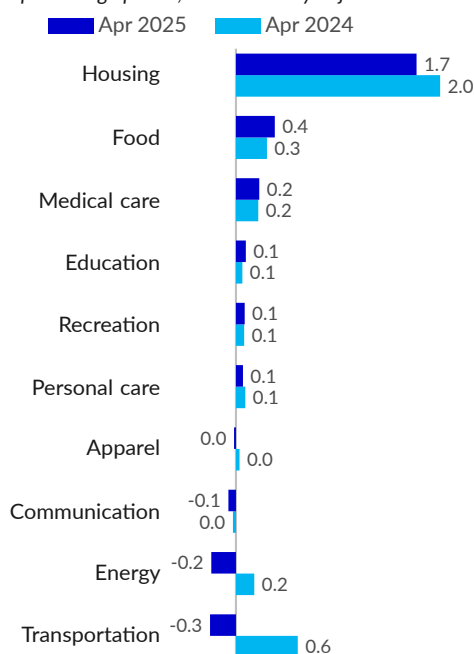
Recent changes in prices can be broad-based, that is derived from many prices changing at roughly the same rate, or narrow-based and driven by large changes in a subset of prices. Identifying each major spending category's **contribution to overall inflation** gives insight into whether inflation is broad-based and also into which groups of people face higher or lower rates of inflation.

In April 2025, housing prices contributed 1.7 percentage points to the CPI one-year inflation rate of 2.3 percent, slightly below the category's April 2024 contribution of two percentage points. Food prices added 0.4 percentage point to April 2025 inflation, slightly above the year-prior contribution of 0.3 percentage point. Transportation prices reduced the inflation rate by 0.3 percentage point in the latest data, compared to a contribution of 0.6 percentage point in April 2024.

Energy prices reduced the inflation rate by 0.2 percentage point in April 2025, substantially below the year-prior contribution of 0.2 percentage point. Medical care prices make up 8.3 percent of the CPI basket and contributed 0.2 percentage point to overall inflation in the latest data, in line with a contribution of 0.2 percentage point one year prior.

### Contribution of Major Categories

contribution to one-year CPI inflation rate  
percentage points, not seasonally adjusted



Source: Bureau of Labor Statistics



The prices of some items are more volatile than others. Food and energy prices, for example, are sometimes separated from the rest of the CPI basket, which is referred to as the *core*, because swings in food and energy prices are larger and more frequent.

Core inflation includes core goods, core services other than shelter, and shelter. Core goods inflation was barely existent from 2013 through the start of the pandemic. Core goods prices are disproportionately affected by import prices and by changes in the quality of goods, for example from technological improvement. In contrast, domestic wage growth affects the prices for core services more than the other categories. Shelter prices are affected by housing supply and construction.

In April 2025, core goods did not contribute to the one-year non-seasonally-adjusted CPI inflation rate of 2.3 percent (see ■), while core services excluding shelter contributed 0.8 percentage point (see ■). Shelter added 1.4 percentage points (see ■), and food & energy added 0.1 percentage point (see ■).

One year prior, in April 2024, the corresponding CPI inflation rate was 3.4 percent; core goods subtracted 0.3 percentage point, core services excluding shelter contributed 1.2 percentage points, shelter contributed 1.9 percentage points, and food and energy added 0.5 percentage point.

### CPI Decomposition

contribution to one-year change in CPI-U, percentage points



Source: Bureau of Labor Statistics, Federal Reserve Bank of San Francisco

### Relative Prices

Some prices increase faster or slower than others. Additionally, the basket of goods used to calculate the CPI is based on average spending patterns across individuals. At a given point, individuals may dedicate a large share of spending to a certain categories or have no expenses at all in a category. For example, day care costs are paid generally only for a few years of a child's life and only some households contain day-care-age children. But within those households, day care is a large share of overall spending.

One-year inflation rates for different categories of goods and services, including some smaller categories, are captured in the following section and table. The table also shows cumulative price changes since February 2020, the last month of data before the COVID-19 pandemic shutdown in the US. Additionally, the weight that a category has in the overall index—the category's share of the basket of goods and services used to calculate the CPI—is included as the last column in the table. This weight comes from each category's share of overall consumer spending during the most recent reference period, and is updated by changes in prices since the reference period.

Housing prices increased four percent over the year ending April 2025, substantially above the pre-COVID rate of 2.9 percent (the average monthly rate during 2019). Medical care prices increased 2.7 percent, these prices grew at an average rate of 2.8 percent during 2019. In contrast, prices of food consumed at home (groceries) increased two percent in the year ending April 2025 compared to 0.9 percent during 2019.

Transportation prices decreased 1.5 percent over the year ending April 2025, substantially below the pre-COVID 0.3 percent decrease. Energy prices decreased 3.7 percent over the year, compared to an average 2.1 percent decrease on average in 2019. Energy prices are historically more volatile than other categories.

### Selected CPI Categories

one-year growth, percent

	Apr '25	Mar '25	Feb '25	Apr '24	2019	Since Feb '20	Weight, Apr '25
All Items	2.3	2.4	2.8	3.4	1.8	24.0	100.0
All Items Less Food & Energy	2.8	2.8	3.1	3.6	2.2	22.3	79.975
Housing	4.0	3.7	3.9	4.5	2.9	27.6	44.245
Owners' Equivalent Rent	4.3	4.4	4.4	5.8	3.3	28.0	26.166
Rent of Primary Residence	4.0	4.0	4.1	5.4	3.7	27.9	7.460
Lodging Away from Home	-1.4	-2.5	2.0	-0.3	3.0	18.7	1.398
Household Furnishings & Ops.	2.3	0.9	1.0	-1.7	1.8	20.7	4.421
Household Energy	5.5	3.8	3.0	3.3	-0.4	38.0	3.305
Transportation	-1.5	-0.9	1.7	3.5	-0.3	31.2	16.601
New Vehicles	0.3	-0.0	-0.3	-0.4	0.4	21.0	4.352
Used Cars & Trucks	1.5	0.6	0.8	-6.9	1.0	33.0	2.386
Gasoline (All Types)	-11.8	-9.8	-3.1	1.2	-3.5	30.3	3.001
Public Transportation	-5.6	-3.5	-0.6	-4.6	0.3	-0.0	1.414
Medical Care	2.7	2.6	2.9	2.6	2.8	12.3	8.251
Professional Services	2.7	2.5	2.4	2.0	1.1	13.2	3.665
Hospital & Related Services	3.8	3.9	3.8	7.9	2.1	23.9	2.281
Health Insurance	3.3	3.1	3.9	-11.6	14.5	-15.7	0.795
Food	2.8	3.0	2.6	2.2	1.9	29.0	13.638
Food at Home	2.0	2.4	1.9	1.1	0.9	27.8	8.002
Food Away from Home	3.9	3.8	3.7	4.1	3.1	31.1	5.637
Full-Service	4.3	4.1	3.7	3.4	3.2	30.0	2.435
Limited-Service	3.4	3.4	3.5	4.8	3.1	34.7	2.832
Recreation	1.6	1.9	1.8	1.5	1.3	15.2	5.292
Communication	-2.3	-1.9	-2.1	-0.9	-0.9	-0.8	3.114
Wireless Telephone Services	-0.3	-0.3	-0.3	-2.7	-2.5	1.4	1.259
Internet Services	-2.9	-1.1	-0.7	4.9	1.5	8.0	0.921
Education	3.8	3.9	3.7	2.5	2.7	13.9	2.551
College Tuition & Fees	2.3	2.3	2.2	1.2	2.9	8.5	1.299
Day Care & Preschool	5.4	5.6	5.4	4.1	2.8	23.1	0.722
Apparel	-0.7	0.3	0.6	1.3	-1.3	6.5	2.539
Personal Care	2.8	3.1	2.5	3.7	1.3	21.8	2.454

Source: Bureau of Labor Statistics

Turning to one-month growth, the core CPI, which excludes food and energy, increased 0.2 percent in April 2025, or 2.9 percent annualized, in line with the one-year core CPI inflation rate of 2.8 percent. The core CPI increased 0.1 percent in March 2025, and increased 0.2 percent in February 2025.

In April, housing prices increased 0.5 percent, (5.8 percent annualized). Over the past three months, housing prices increased at an average annualized rate of 4.7 percent, substantially above the 12-month rate of 2.8 percent. Food prices were virtually unchanged in April, or negative 0.9 percent, annualized, compared to a three-month average of 2.1 percent.

Transportation prices decreased at an annualized rate of 0.5 percent in April, and decreased at an average annualized rate of 8.2 percent over the past three months. Energy prices increased at an annualized rate of 8.3 percent in April, and decreased at an average annualized rate of 4.8 percent over the past three months.

### Selected CPI Categories, Monthly Rate

*one-month growth, seasonally adjusted, percent*

	Apr '25	Mar '25	Feb '25	Jan '25	Dec '24	Nov '24	May '24	Apr '24
All Items	0.2	-0.1	0.2	0.5	0.4	0.3	0.0	0.3
All Items Less Food & Energy	0.2	0.1	0.2	0.4	0.2	0.3	0.1	0.3
Housing	0.5	0.3	0.4	0.3	0.3	0.3	0.3	0.2
Owners' Equivalent Rent	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4
Rent of Primary Residence	0.3	0.3	0.3	0.3	0.3	0.2	0.4	0.4
Lodging Away from Home	-0.1	-3.5	0.2	1.4	-0.5	2.6	-0.6	-1.3
Household Furnishings & Ops.	1.0	-0.0	0.4	-0.2	0.0	0.6	-0.2	-0.3
Household Energy	1.4	1.4	1.3	0.5	0.8	-0.1	-0.1	-0.3
Transportation	-0.0	-1.8	-0.4	1.2	1.2	0.3	-0.9	0.5
New Vehicles	-0.0	0.1	-0.1	0.0	0.4	0.5	-0.4	-0.4
Used Cars & Trucks	-0.5	-0.7	0.9	2.2	0.8	1.3	-0.8	-1.5
Gasoline (All Types)	-0.1	-6.3	-1.0	1.8	4.0	0.3	-2.4	2.2
Public Transportation	-1.8	-4.2	-3.4	0.7	2.4	0.3	-2.7	0.4
Medical Care	0.5	0.2	0.3	0.2	0.1	0.2	0.5	0.4
Professional Services	0.4	0.2	0.3	-0.2	0.1	0.4	0.3	0.2
Hospital & Related Services	0.5	1.3	0.2	0.9	0.2	0.1	0.3	0.6
Health Insurance*	0.4	0.4	0.3	0.7	-0.0	0.2	0.5	0.3
Food	-0.1	0.4	0.2	0.4	0.3	0.3	0.1	0.1
Food at Home	-0.4	0.5	0.0	0.5	0.3	0.4	-0.0	-0.0
Food Away from Home	0.4	0.4	0.4	0.2	0.3	0.3	0.4	0.3
Full-Service	0.6	0.6	0.4	0.1	0.2	0.3	0.4	0.3
Limited-Service*	0.3	0.2	0.3	0.3	0.4	0.3	0.2	0.4
Recreation	-0.0	-0.1	0.3	1.0	-0.0	0.3	-0.1	0.2
Communication	-0.4	0.1	0.3	0.4	-0.1	-0.9	-0.3	0.1
Wireless Telephone Services*	0.1	-0.1	-0.1	-0.0	-0.0	-0.2	0.0	0.0
Internet Services	-1.5	0.3	1.1	1.1	0.4	-1.6	0.1	0.4
Education	0.1	0.4	0.2	0.2	0.2	0.5	0.4	0.3
College Tuition & Fees	0.2	0.2	0.2	-0.1	0.2	0.1	0.2	0.2
Day Care & Preschool	0.0	0.1	0.5	0.8	-0.1	0.4	0.3	0.3
Apparel	-0.2	0.4	0.6	-1.4	0.1	0.1	-0.2	0.9
Personal Care	0.1	1.0	0.6	-0.5	-0.0	0.3	-0.0	0.4

Source: Bureau of Labor Statistics; \*not seasonally adjusted

## Inflation Expectations

Researchers gain insight on expected changes in prices through regular **surveys of consumers** and through **market data**. One market-based measure is known as the **inflation breakeven** and is calculated as the difference between the yield on a nominal treasury bond and the yield on a treasury inflation-protected bond of the same maturity. This difference represents the amount of inflation markets have priced in, on average, for the maturity of the bond.

### Five-Year Expected Average Inflation

expected average annual rate, percent



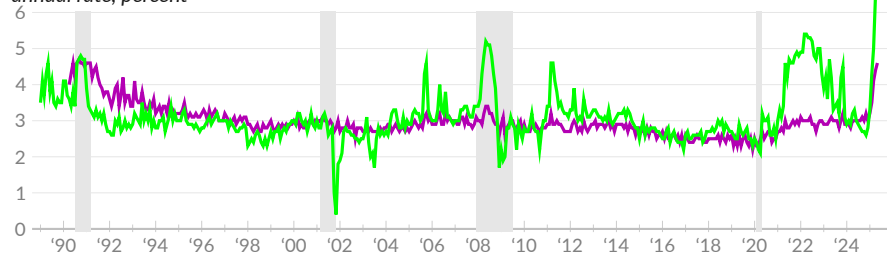
As of May 2025, surveyed consumers expect inflation to average 4.6 percent over the next five years (see —), compared to an expected rate of 3.0 percent in May 2024. Consumers had expected inflation to average 2.7 percent over the past five years, while actual inflation over the period was 4.3 percent.

As of May 23, 2025, markets expect an average inflation rate of 2.4 percent over the next five years (see —), compared to an expected rate of 2.3 percent on May 21, 2024. Markets had expected inflation to average 0.7 percent per year over the past five years, five years ago.

Both survey- and market-based estimates of expected inflation distinguish between near-term inflation and expected medium-term inflation. The survey-based measure asks about inflation over the next year. Respondents expect consumer prices to increase 7.3 percent over the year starting May 2025 (see —).

### Survey of Expected Inflation

annual rate, percent



### Market Expected Inflation

annual rate, percent



The market-based measure can also be used to calculate expected inflation over the five years starting five years from now. Over this five-year period, markets suggest 2.3 percent inflation per year, as of May 23, 2025. Inflation rates in the near-term are therefore expected to exceed inflation rates in the longer-term.

## PCE Price Index

The Personal Consumption Expenditure (PCE) price index from the Bureau of Economic Analysis [captures](#) not only changes in the prices of goods and services but also monthly shifts in consumer behavior. Additionally, the index is regularly updated to incorporate the latest methodologies.

As of March 2025, **PCE inflation**, measured as the one-year percent change in the overall index, is 2.3 percent (see —), compared to 2.7 percent in February, and 2.8 percent in March 2024. Core PCE inflation, which excludes food and energy, was 2.6 percent in March 2025 (see —), three percent in February, and three percent in March 2024.



The Federal Reserve Bank of Dallas [publish](#) a variation of the PCE price index called the trimmed-mean index. The most-volatile categories in the current month's index are removed, or *trimmed*, to smooth the data. As a result, the most extreme categories, which vary from month-to-month, do not affect inflation rates calculated using the trimmed-mean index.

The trimmed-mean PCE price index increased 2.5 percent over the year ending March 2025 (see —). By excluding top and bottom categories, the trimmed-mean rate was 0.2 percentage point above the all-items PCE rate. In February 2025, the **trimmed-mean inflation rate** was 2.6 percent, 0.1 percentage point below the all-items rate. From 2017–2019, the average trimmed-mean rate was 1.9 percent, 0.1 percentage point above the all-items rate.



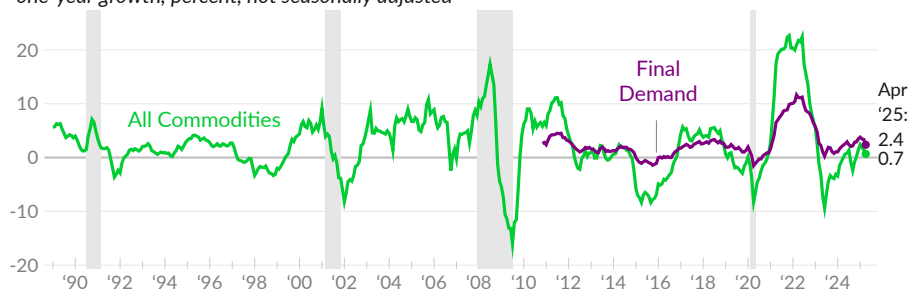
## Producer Prices

The Bureau of Labor Statistics [report prices producers receive](#). The goods-only producer price index (PPI) for all commodities (see [—](#)) increased 0.7 percent over the year ending April 2025, in line with the 12-month growth rate of 0.0 percent in April 2024. The index for final demand goods, services, and construction increased 2.4 percent over the year ending April 2025 (see [—](#)).

Note that the all commodities index includes goods at various stages of production and can count inflation multiple times in the production of the same goods. As a result, this measure can send an exaggerated inflation signal.

### Producer Price Index

one-year growth, percent, not seasonally adjusted



Source: Bureau of Labor Statistics

The one-month change in the prices producers receive can provide insight into recent trends. In April 2025, the one-month change in PPI final demand prices was negative 0.5 percent (see [—](#)), following virtually no change in March 2025. The one-month change in the all commodities index was 0.0 percent (see [—](#)) in April 2025 and negative 0.3 percent in March 2025.

### PPI One-Month Growth

change from previous month, percent



Source: Bureau of Labor Statistics

## Import and Export Prices

The Bureau of Labor Statistics [report](#) changes in the prices of imports and exports. Over the year ending April 2025, **US import prices** were unchanged (see —), following increases of 0.8 percent in March and 1.7 percent in February. Excluding fuels, US import prices increased 1.2 percent in April 2025 and grew 1.4 percent in March. In 2019, US import prices decreased at an average rate of 1.3 percent. Excluding fuels, import prices decreased at an average rate of 1.1 percent in 2019.

**Prices of US exports** grew two percent over the year ending April 2025 (see —), following increases of 2.6 percent in March, and 2.6 percent in February. In 2019, export prices decreased at an average rate of 0.8 percent.

### Import/Export Price Index

one-year growth, percent



## Commodity Prices

Commodities can have macroeconomic importance. Oil, which is a major input to production and transportation, has a particularly volatile history. Commodity prices can also send a signal to domestic producers. Higher prices encourage more production and lower prices discourage production.

Two important commodities for the construction and manufacturing industries are lumber and steel. From the producer price index, cold-rolled steel sheet and strip prices (see —) have increased 0.8 percent over the year ending April 2025, and increased 78.2 percent total since December 2019. Lumber prices (see —) increased 7.1 percent over the year ending April 2025, and increased 30.0 percent total since 2019.

### Steel

cold-rolled steel sheet and trim, index 1989=1



### Lumber

lumber and wood products, index, 1989=1



## Crude Oil

On May 19, 2025, the **spot price** for a barrel of west Texas intermediate (WTI) **crude oil** is \$63.98 (see —). Over the past year, this measure of oil prices decreased 20.0 percent. Over the past five years, the price increased 124.0 percent. The WTI price is currently \$70 below its peak monthly average price of \$134 per barrel in June 2008.

### Oil Price

USD, west Texas intermediate crude, monthly average and latest value



Source: Energy Information Administration

## Gasoline

On May 19, 2025, the US average **price** for a gallon of **gasoline** is \$3.30 (see —), an increase of \$0.05 from the week prior. This gas price measure, which is the average across formulations, grades, and locations, was \$3.71 one year prior, and averaged \$2.69 in 2019. During 2011–2013, the average gas price was \$3.61.

### Gasoline Price

dollars per gallon, all grades



Source: Energy Information Administration

## Gold

As of May 22, 2025, one troy ounce of **gold** **sells** for \$3,306 (see —), compared to an average of \$2,351 one year prior. Following the great recession, the monthly average price of gold reached \$1,781 per ounce, in September 2011. In May 2025, the average monthly price reached \$3,306 per ounce.

### Gold Price

USD, monthly average and latest value



Source: London Bullion Market Association



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