

2022 EXPERIAN EDGE

# Economic Chartbook

Setting the stage for the year to come

December 2022





## Welcome to our inaugural release

The **2022 Experian Edge Economic Chartbook** is a look at some of the hottest economic and credit trends our team covered over the last 12 months. From the reopening of the economy and the return of travel to the Russian invasion of Ukraine and the reemergence of decades-high inflation, 2022 was a year of ups and downs. And all along the way our economists, credit experts and analytics professionals consistently brought deep insight and our unique, credit-focused view to the market. By distilling the key themes from our industry-leading webinars, client conversations and special reports from the past year, we hope to provide you with a stage-setting resource that you will turn to again and again in the months ahead.

**We look forward to another wonderful year of conversation, successes and of tackling the challenges that meet us head-on, together.**

### More resources for you

As part of our commitment to demystifying the current economic environment and giving our partners the best tools in the business, we have launched the [Experian Edge Hub](#) — a landing zone for all our economic and credit thought leadership, interactive labor market data, and tools for navigating the business cycle. If you are a client and are looking for additional in-depth analysis, contact us for access to our [Economic Analysis and Readiness Report](#), which provides more granular analysis on the economy, credit and attribute trends, and fraud.

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Data Scientist



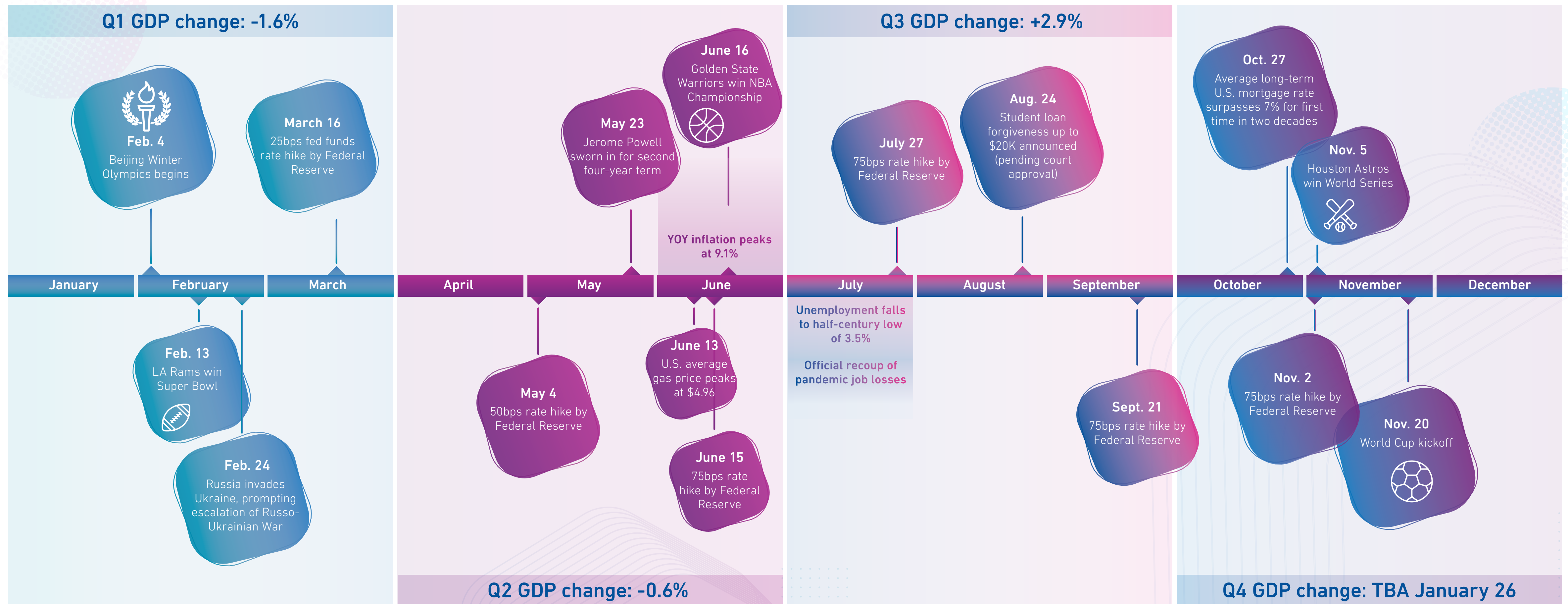




Play along as we cover key economic and credit trends

Clue	Scrambled	Answer
1. He was sworn in to serve his second four-year term as the Federal Reserve chairman in May 2022.	meoerj lepwlo	
2. This anecdotal account features economic highlights from the 12 Federal Reserve Districts.	gibee kobo	
3. This market has been most acutely impacted by rising rates.	nushoig	
4. Roughly this percentage of days are worked from home.	rhtiyt	
5. This many states have recovered their pandemic job losses.	itnyxwest	
6. This census region has the lowest inflation rate.	troansthe	
7. This hit a 40-year peak of 9.1% YOY change in June 2022.	oeumrsnc ecpir xeidn	
8. This generation is the largest and entering their prime home-buying years.	lmanelnlii	
9. This city hosted the 2022 Winter Olympics.	iijengb	
10. Standing at an estimated \$1.7T at the end of Q2, this has supported spending despite high inflation.	eescxs giassnv	

## 2022 economic timeline



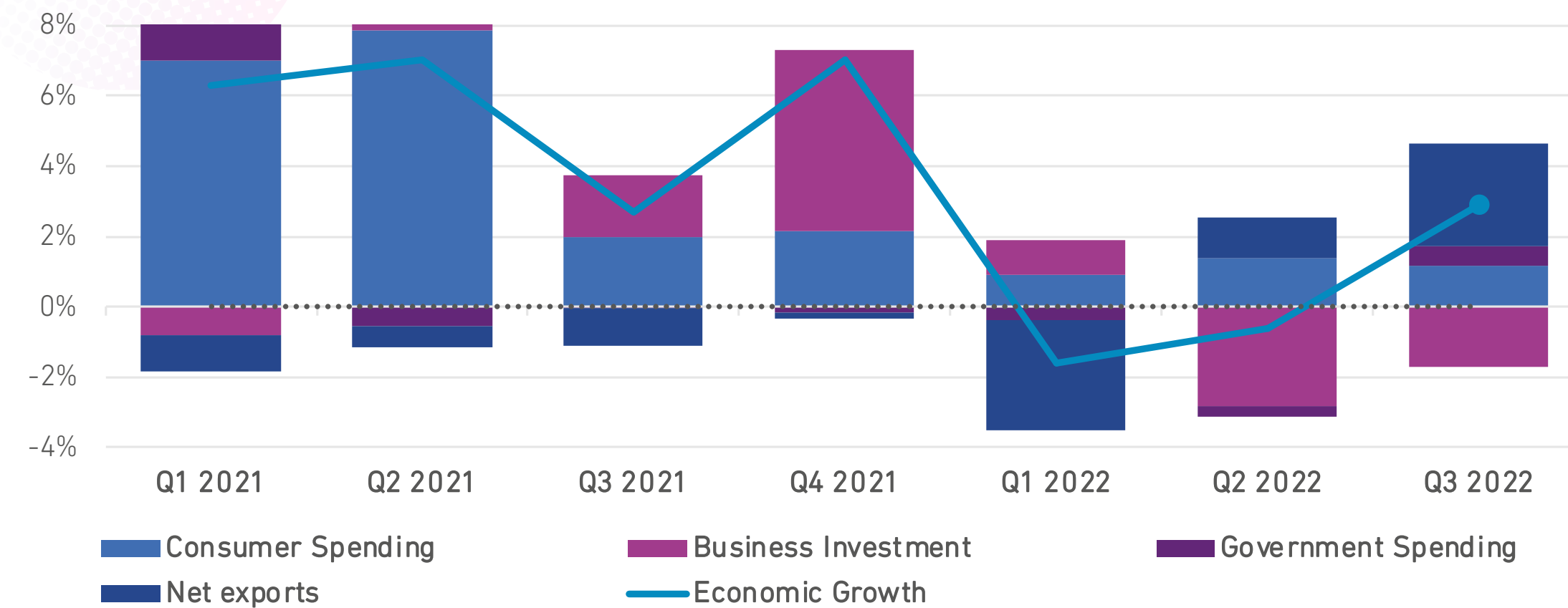
Source: Federal Reserve Board of Governors, U.S. Bureau of Labor Statistics, U.S. Energy Information Association, Freddie Mac



## 2021 post-lockdown surge gives way to slowdown in 2022

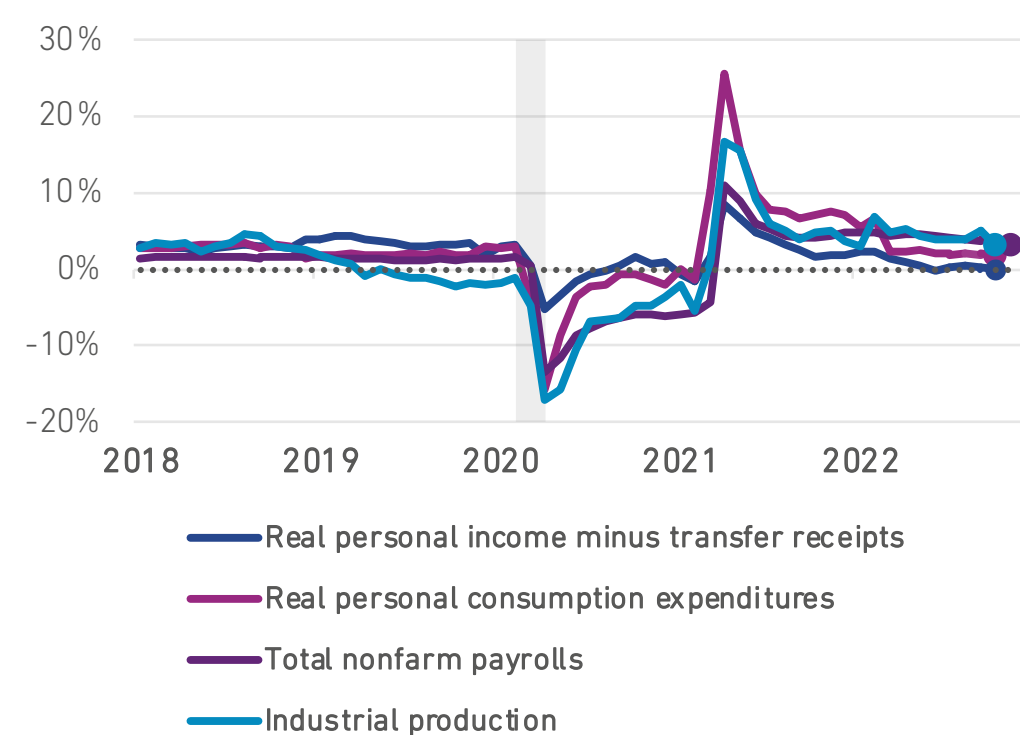
Economic growth fell in the first half of 2022 as the impact of stimulus waned and inflation, rising rates and the war in Ukraine weighed on the economy

Contributions to economic growth (Quarterly gross domestic product % change SAAR)



Key indicators used to determine recessions are moderating but still in the positive

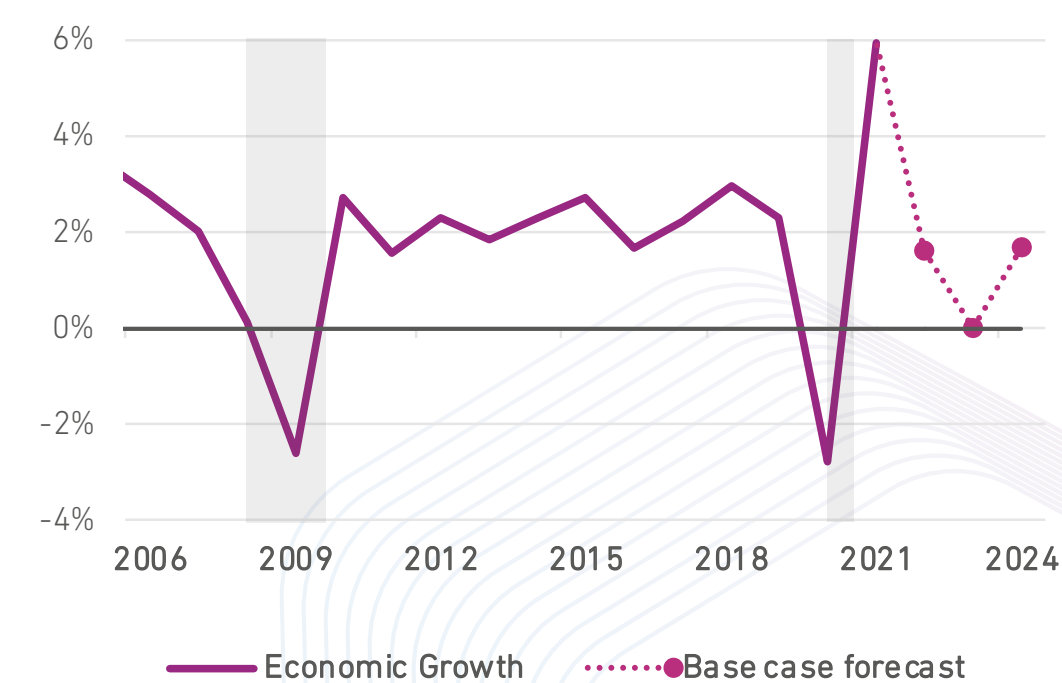
NBER recession indicators, YOY % change



Source: National Bureau of Economic Research (NBER), Bureau of Economic Analysis, Bureau of Labor Statistics, Federal Reserve Board of Governors and author's calculation

Our base case forecast is for the economy to expand by 1.6% in 2022 and remain flat in 2023

Real gross domestic product annual % change

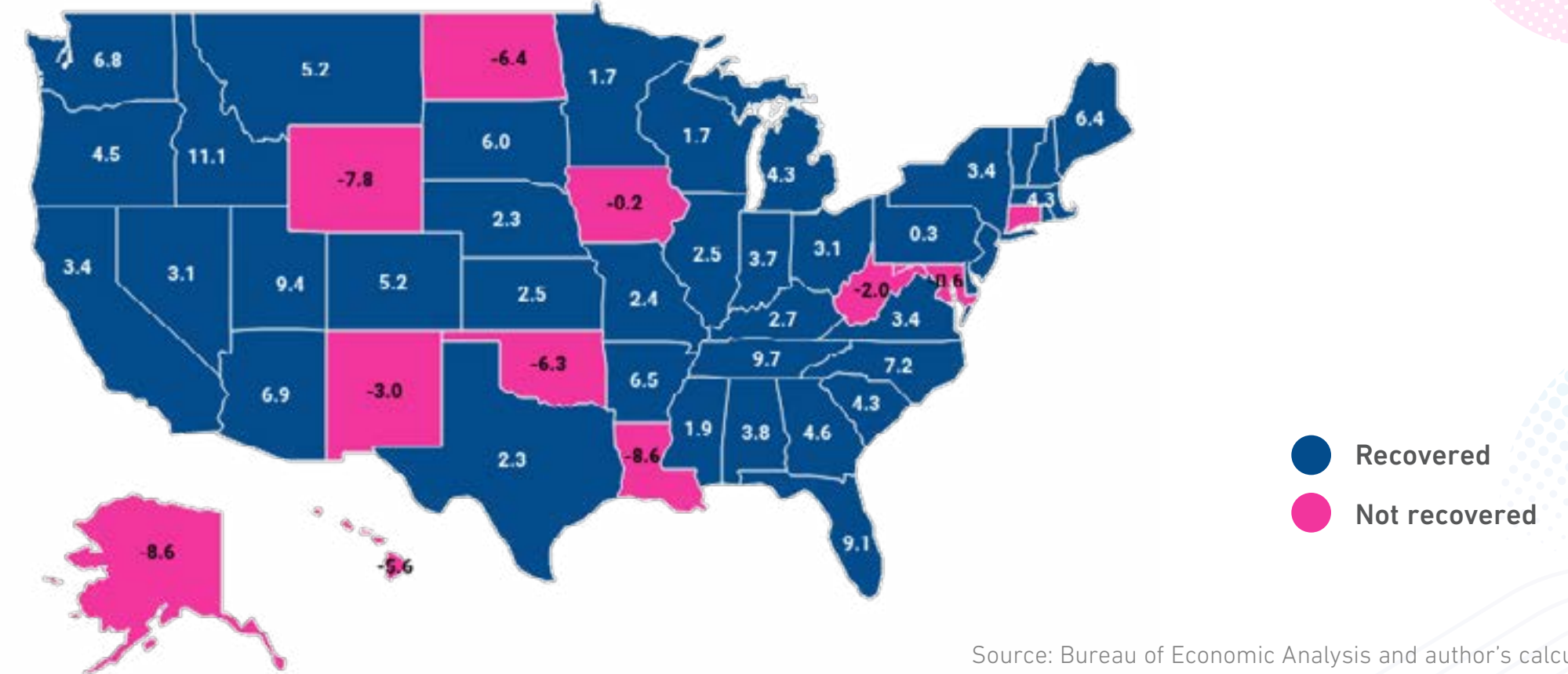


Source: Bureau of Economic Analysis and Experian's October 2022 Macroeconomic Scenarios Forecast

## Some divergence in state-level recoveries

By the end of the first half of 2022, most states had returned to their pre-pandemic level of economic activity ...

Gross domestic product % change: Q4 2019–Q2 2022



Source: Bureau of Economic Analysis and author's calculations

... but anecdotes in Q4 2022 suggest that Federal Reserve Districts are experiencing a mixed bag of growth.

Select anecdotes from the Federal Reserve's November 2022 Beige Book

### Boston

Business activity softened slightly amid mixed results. Employment levels and prices were mostly unchanged. Wage growth was steady at a moderate pace. Restaurant owners enjoyed robust demand.

### Dallas

Modest economic growth continued, though persistent declines were seen in retail spending, home sales and lending activity. Job growth was solid, but there were reports of layoffs and a slowdown in hiring. Input and labor cost increases continued, prompting cost cutting and downsizing for some firms.

### New York

Economic activity declined modestly. While job growth picked up slightly and labor shortages eased somewhat, hiring plans weakened. Wage growth slowed, while the pace of input and selling price increases remained elevated and was little changed.

### San Francisco

Economic activity expanded modestly. Employment levels grew at a modest pace amid tight labor market conditions. Wages and prices rose at a slower pace relative to the previous reporting period. Demand for retail goods and services trended up.

### Kansas City

Real economic activity in the Tenth District declined slightly. Job growth was subdued as labor demand cooled. Prices continued to rise at a robust pace, but several contacts noted growth in prices of construction materials and other manufacturing inputs slowed.

### Atlanta

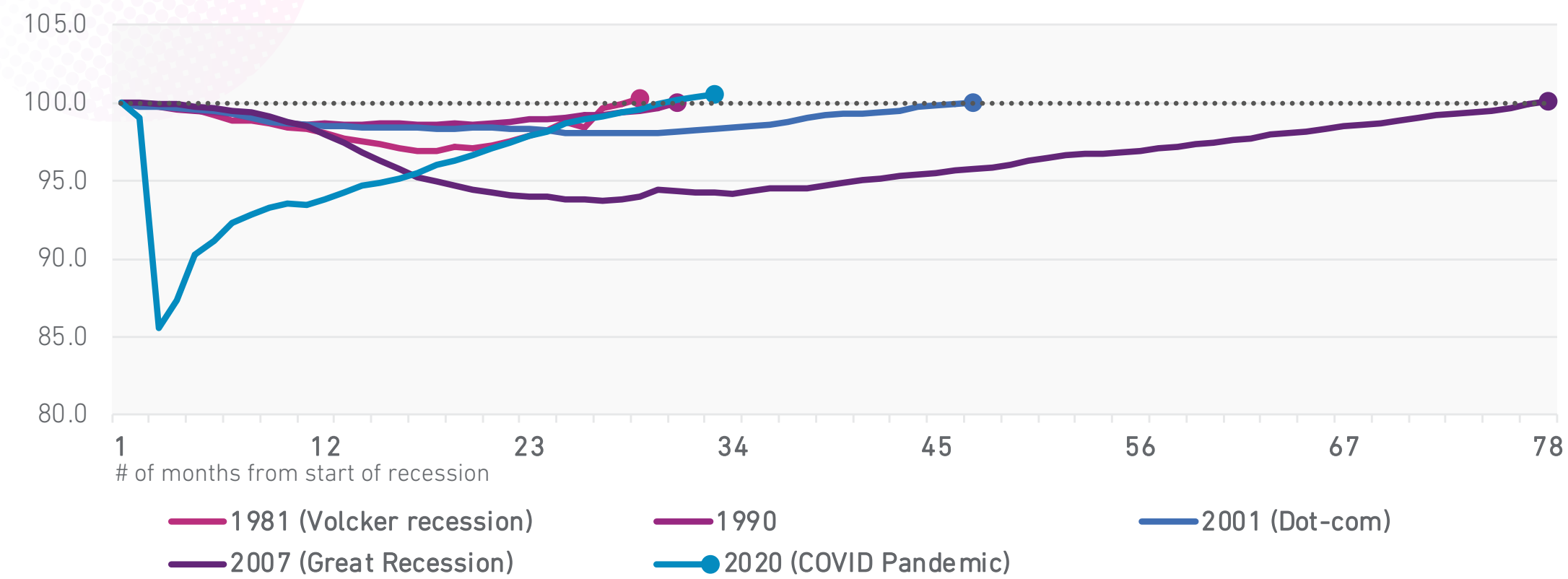
Economic activity grew slightly. Labor market tightness eased, but wage pressures continued. Most nonlabor costs moderated. Retailers reported stable consumer demand. Demand for new autos was robust. Leisure travel activity was steady and business travel improved.



## Job creation was hot in 2022, will moderate in 2023

**Pandemic job losses were recouped in July 2022, making the pandemic recovery one of the quickest in modern history**

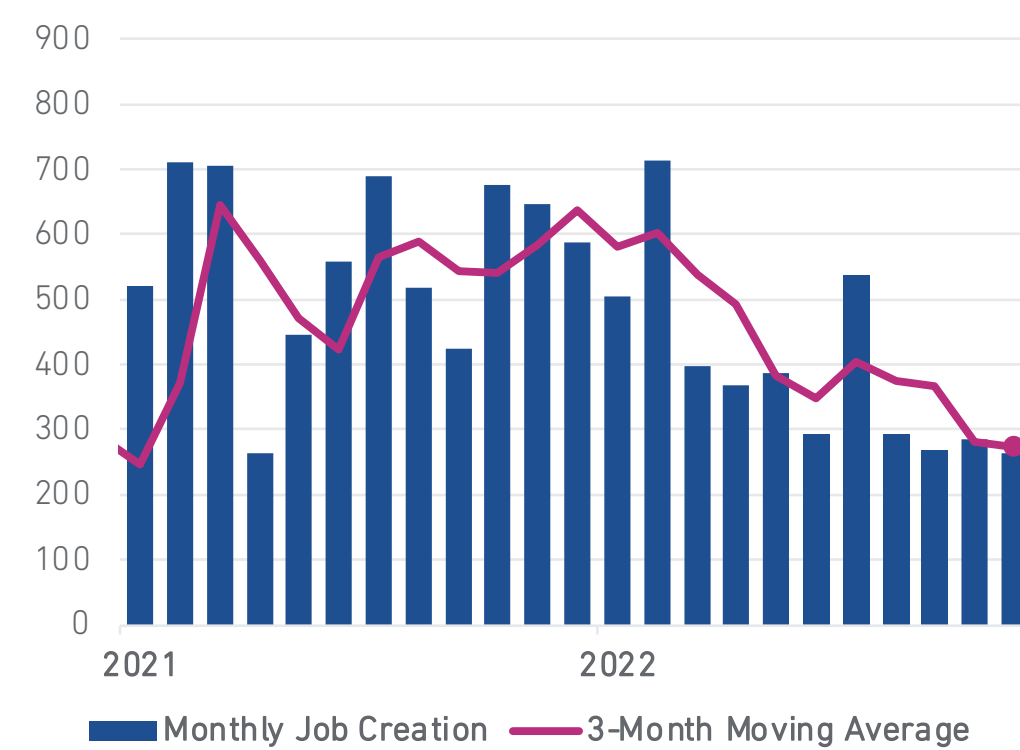
Months from start of recession to employment recovery. Index: Recession start = 100



Source: Bureau of Labor Statistics and author's calculation

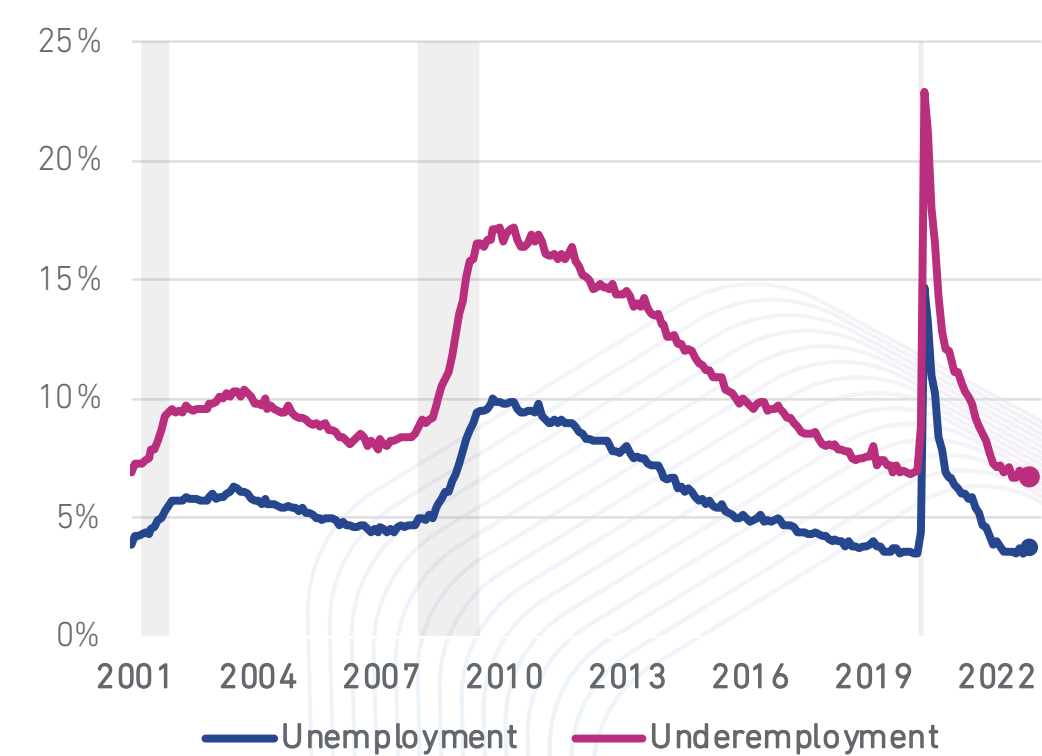
**Job creation is still solid, but moderating (left chart), while measures of unemployment remain historically low (right chart)**

Employment gain (in thousands)



Source: Bureau of Labor Statistics and author's calculation

Unemployment rates

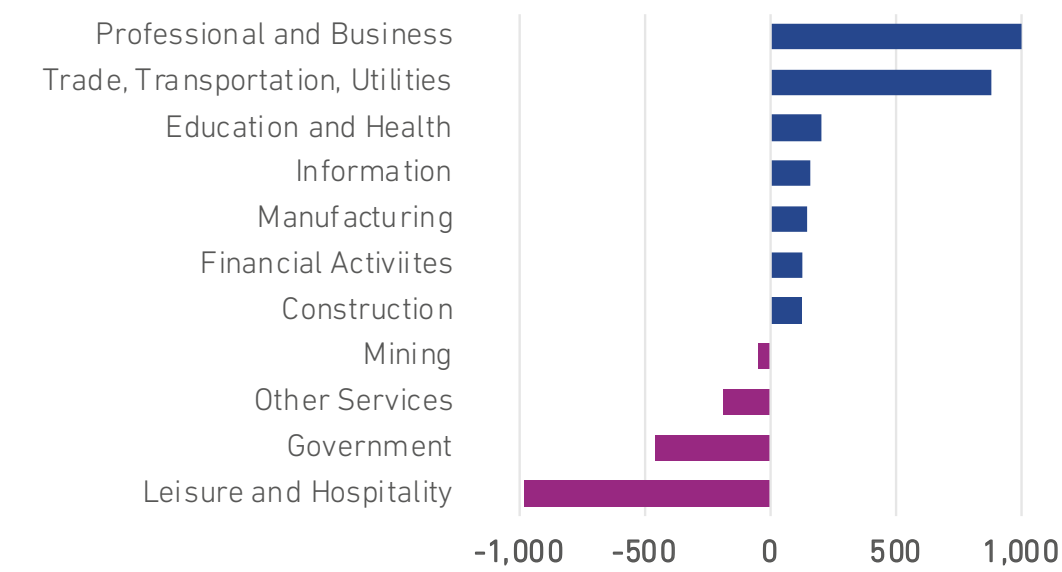


Source: Bureau of Labor Statistics

## Pandemic changed job composition and shortages continue

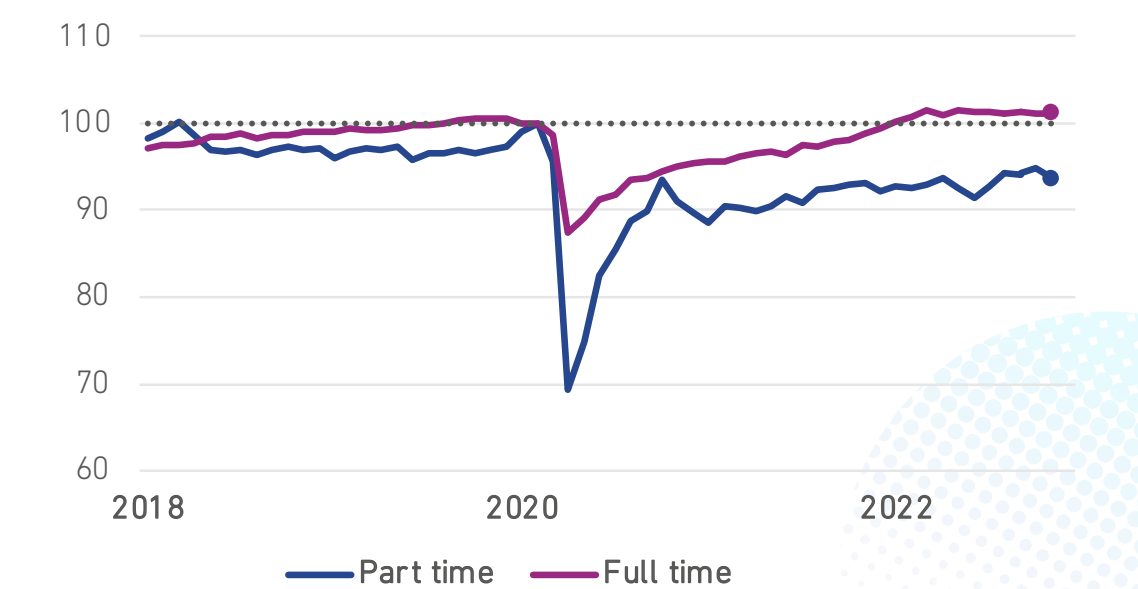
**Leisure and hospitality employment is still roughly a million jobs shy of its pre-pandemic level (left chart) and part-time workers have been hard to come by as people have had better employment opportunities (right chart)**

Job gains: February 2020–October 2022 (in thousands)



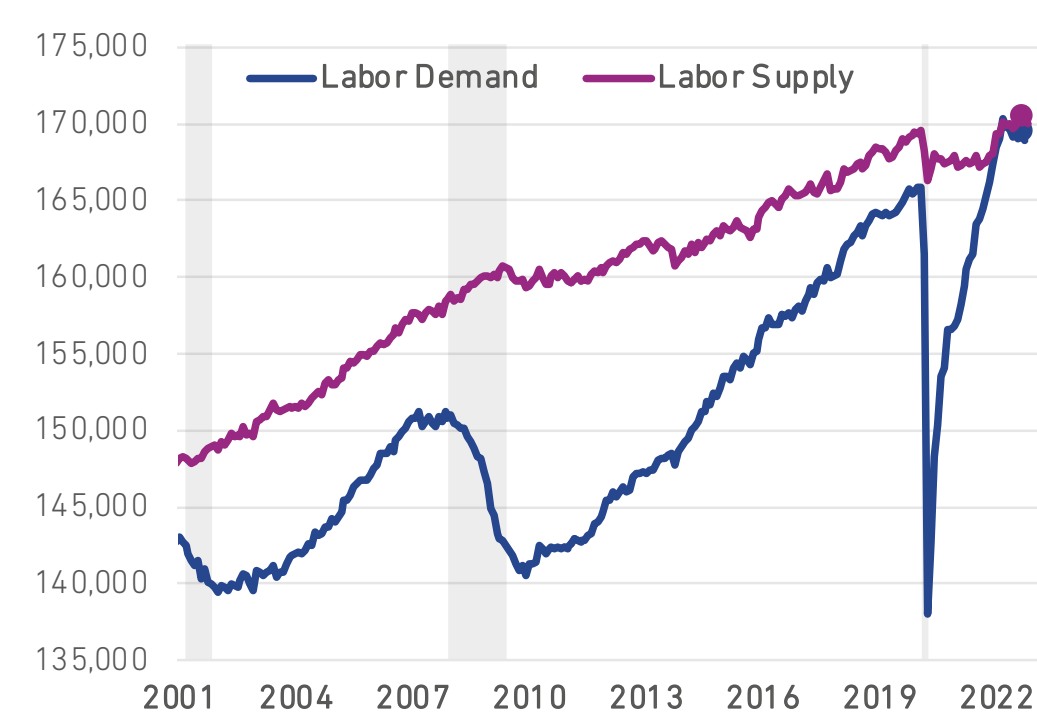
Source: Bureau of Labor Statistics and author's calculation

Part-time versus full-time worker employment: Feb. 2020 = 100



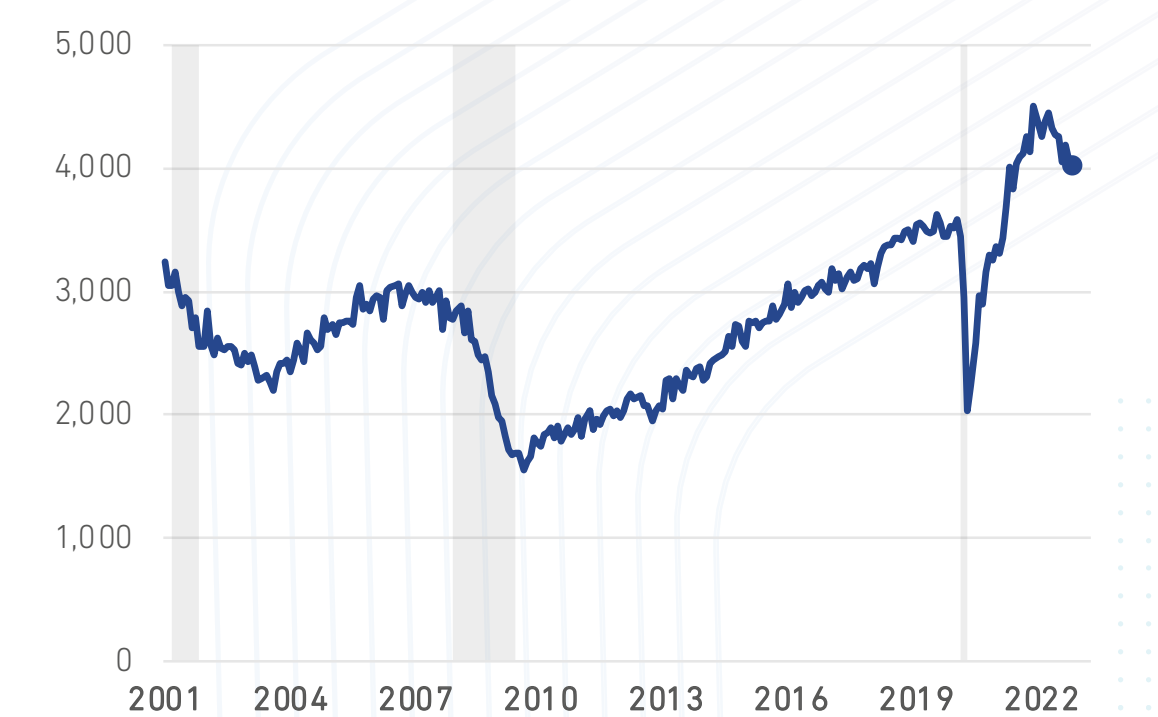
**The labor market remains historically tight with high demand and a below-trend supply of workers (left chart) at the same time people continue to quit at a high rate (right chart)**

Relationship between labor supply and demand (in thousands)



Source: Bureau of Labor Statistics and author's calculations  
(labor demand = total employment + job openings, labor supply = labor force level + not in labor force but want job now)

Quit level (in thousands)



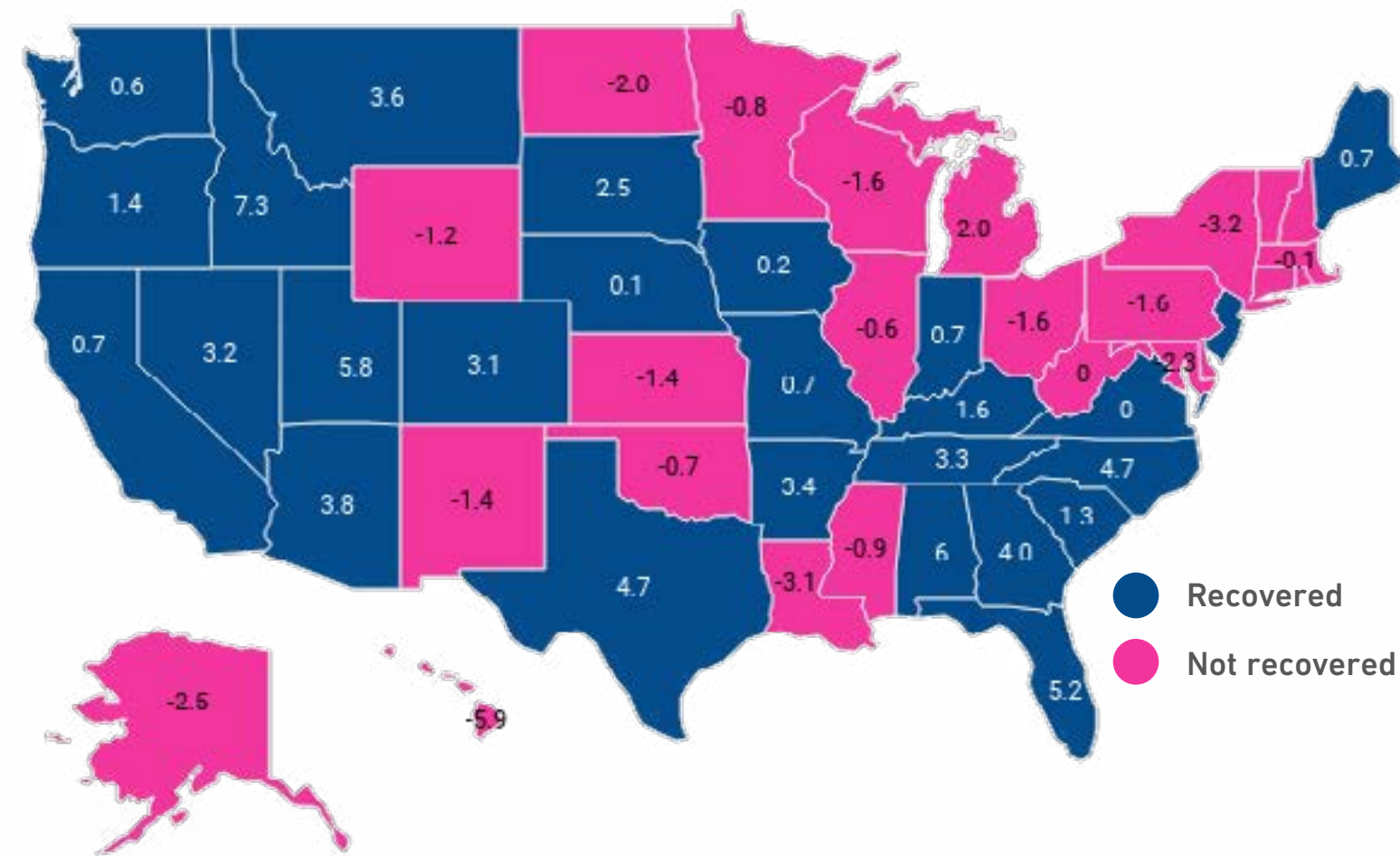
Source: Bureau of Labor Statistics



## Some states boom as others remain below pre-pandemic levels

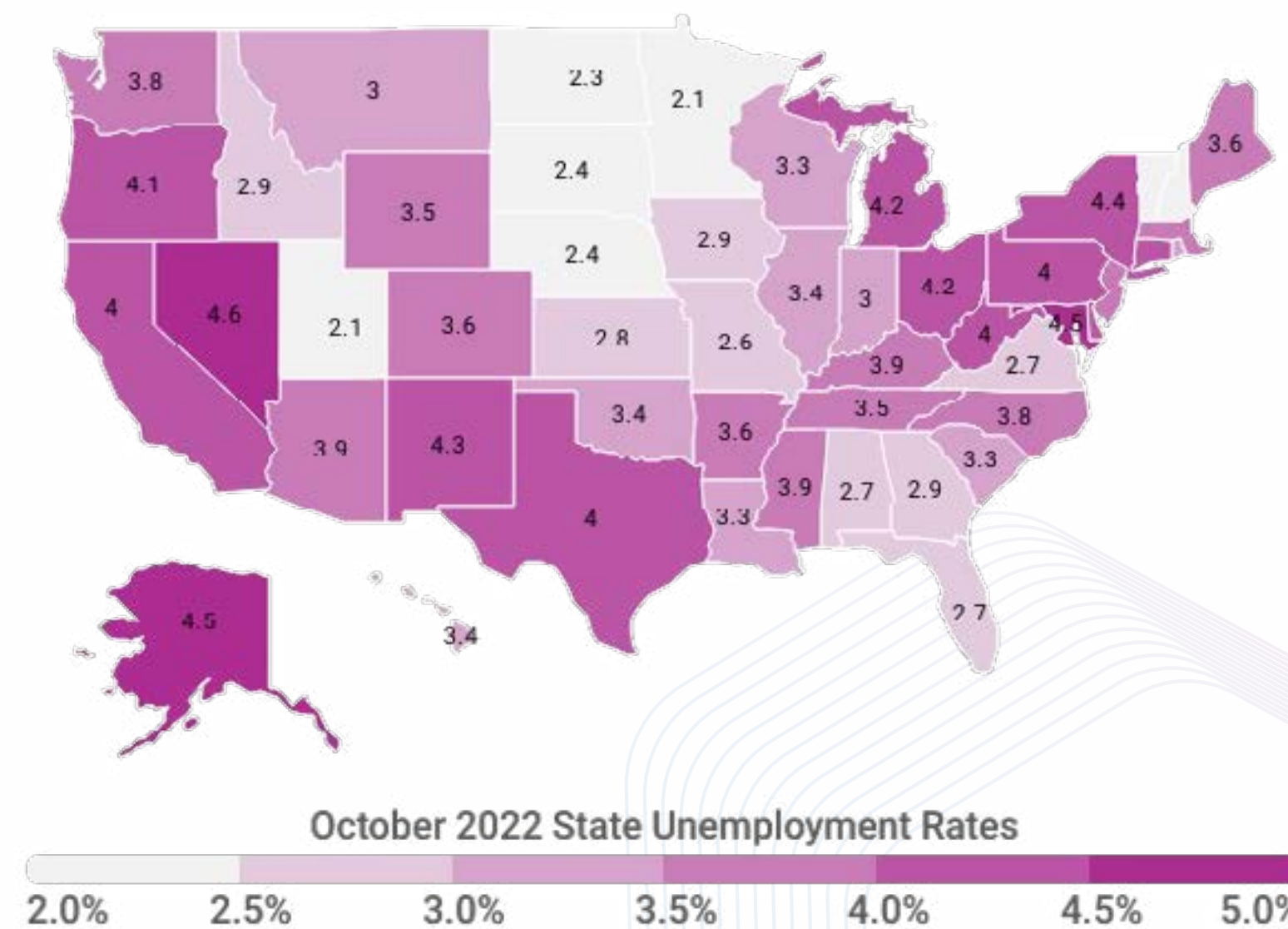
### Twenty-six states have recovered their pandemic job losses

Employment % change:  
February 2020–October 2022



### Unemployment remains near record lows in many states

North-central and south-eastern states have the lowest jobless rates



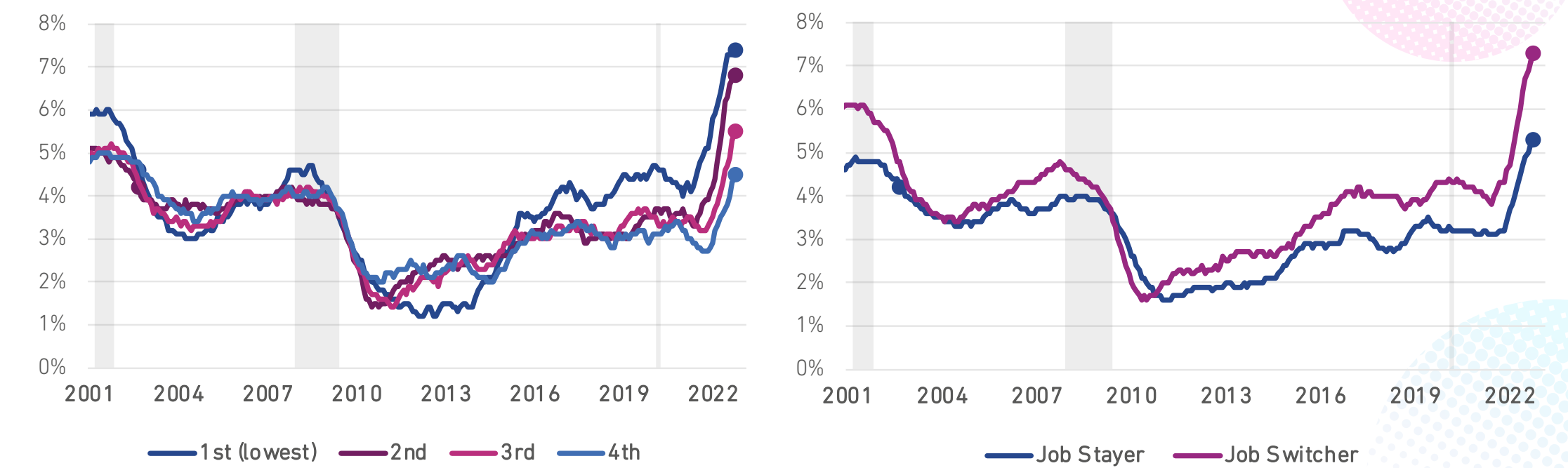
October 2022 State Unemployment Rates

Source: Bureau of Labor Statistics

## Wage growth booms for lower income workers and job switchers

### Shortages in the service sector have driven up wages for the lower wage groups and for job switchers

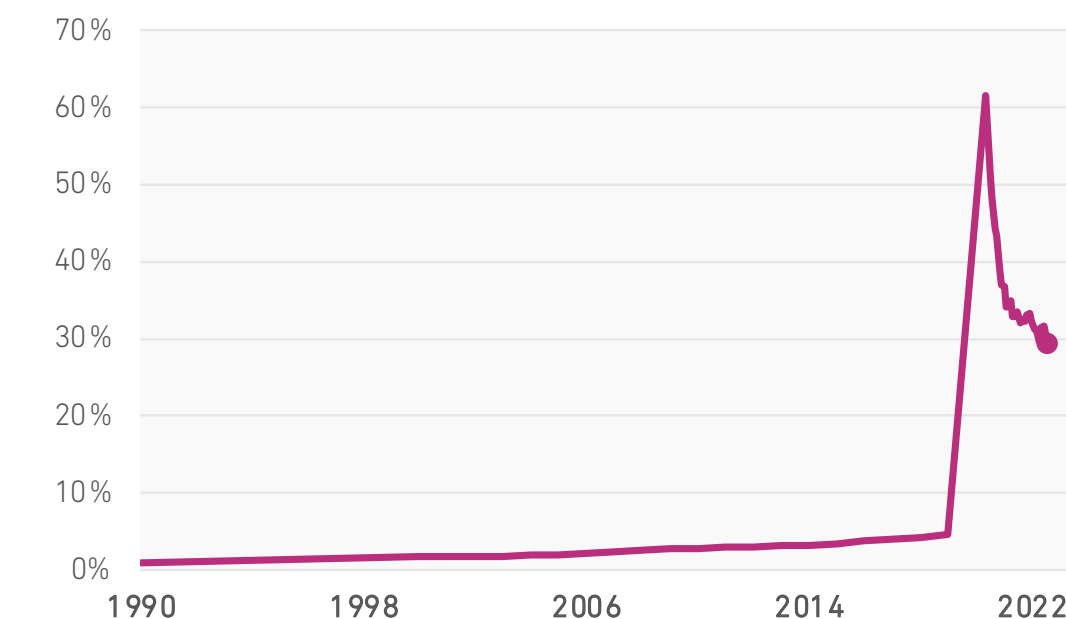
12-month change in average wage growth by income quartile (left chart) and job stayers and switchers (right chart)



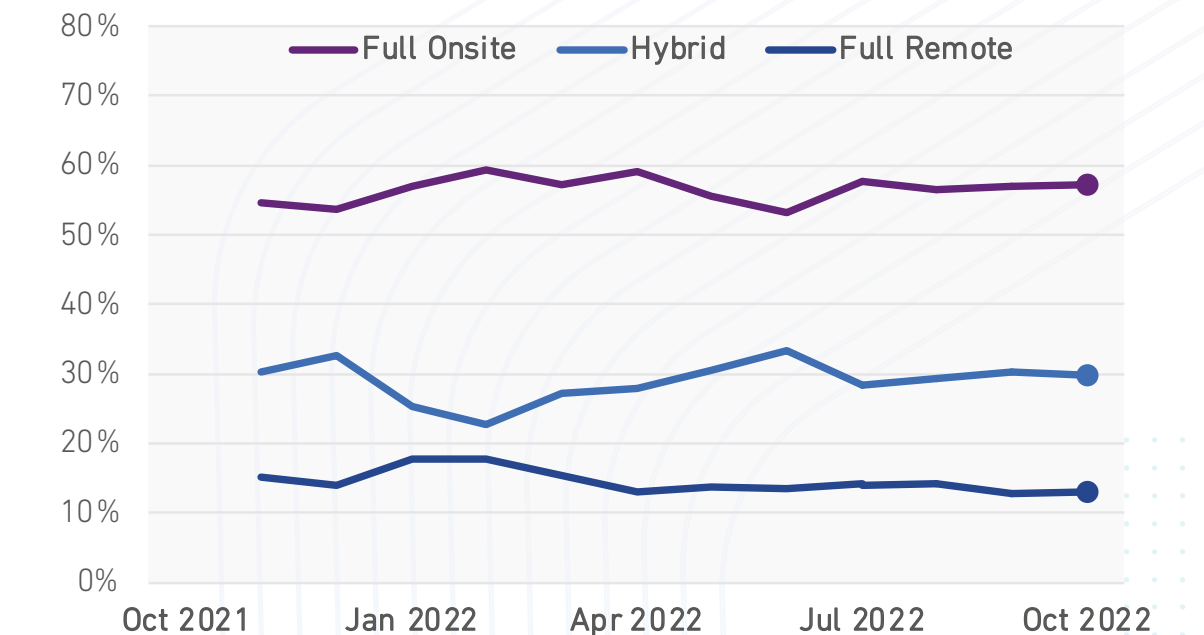
Source: Federal Reserve Bank of Atlanta, Wage Growth Tracker

### Remote work has come off its peak, but remains in vogue with nearly 30% of days worked from home (left chart), but the rate of full-remote workers is waning (right chart)

Percentage of paid full days worked from home



Work-from-home arrangements for full-time workers



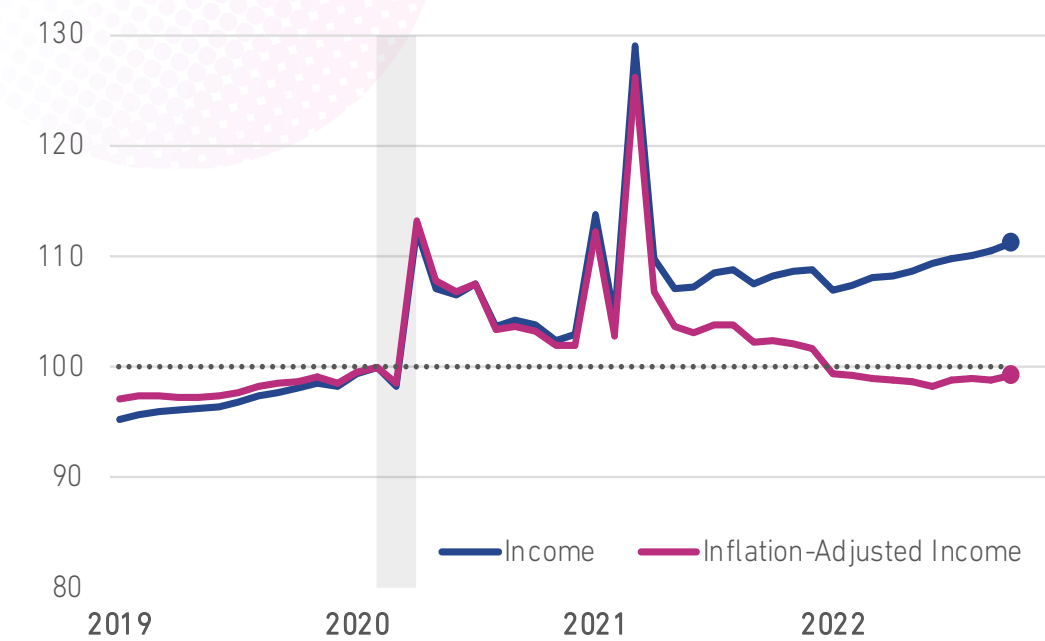
Source: Barrero, Jose Maria, Nicholas Bloom, and Steven J. Davis, "Why working from home will stick," National Bureau of Economic Research



## Inflation has hit incomes, but spending continues

**Inflation has eroded household incomes (left chart) and contributed to poor consumer attitudes (right chart) ...**

Disposable personal income, Index: Feb 2020 = 100

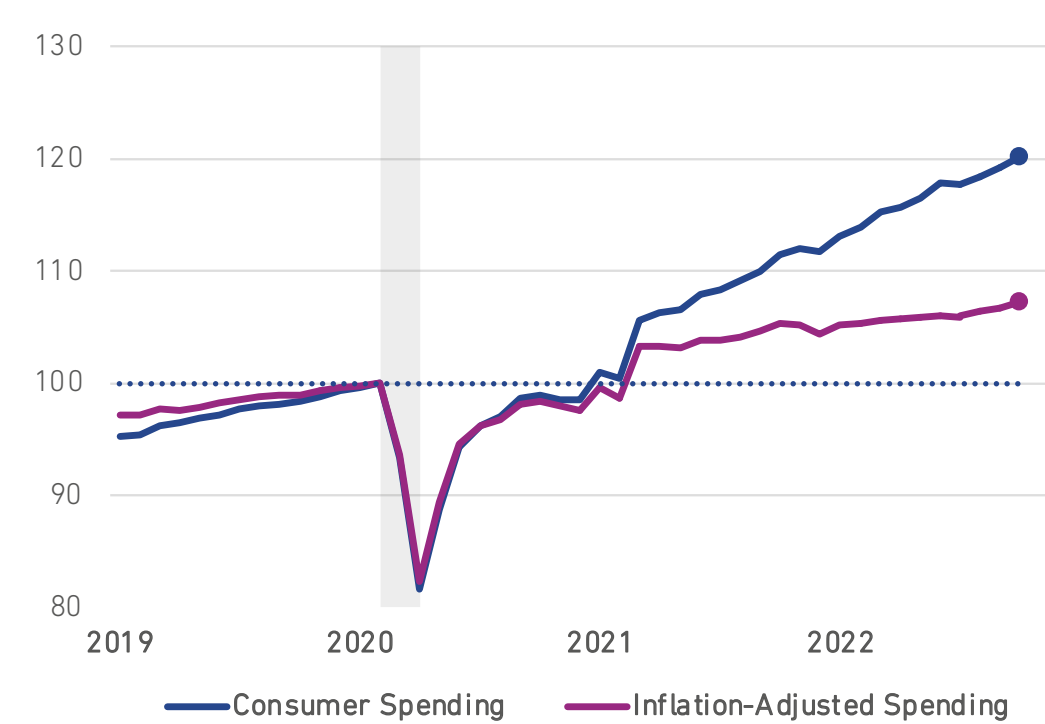


University of Michigan Consumer Sentiment Index

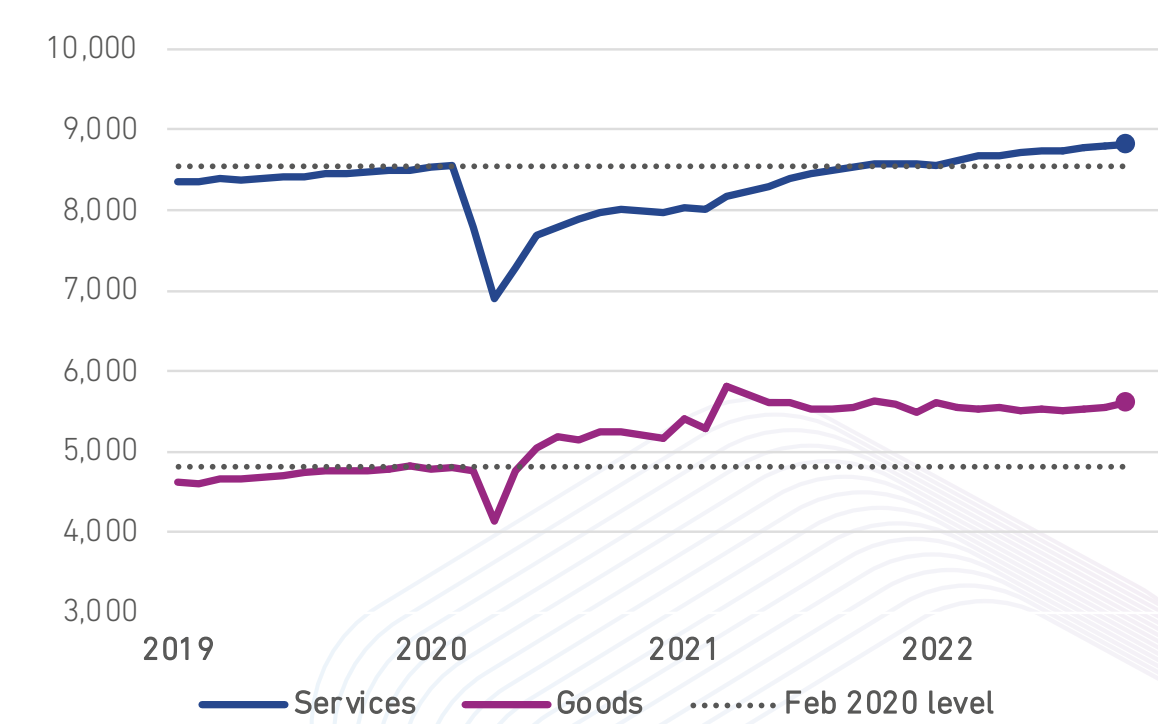


**... but spending has remained resilient (left chart) as consumers continue to buy lots of goods and increase their spending on experiences in the service sector (right chart)**

Personal consumption, Index: Feb 2020 = 100



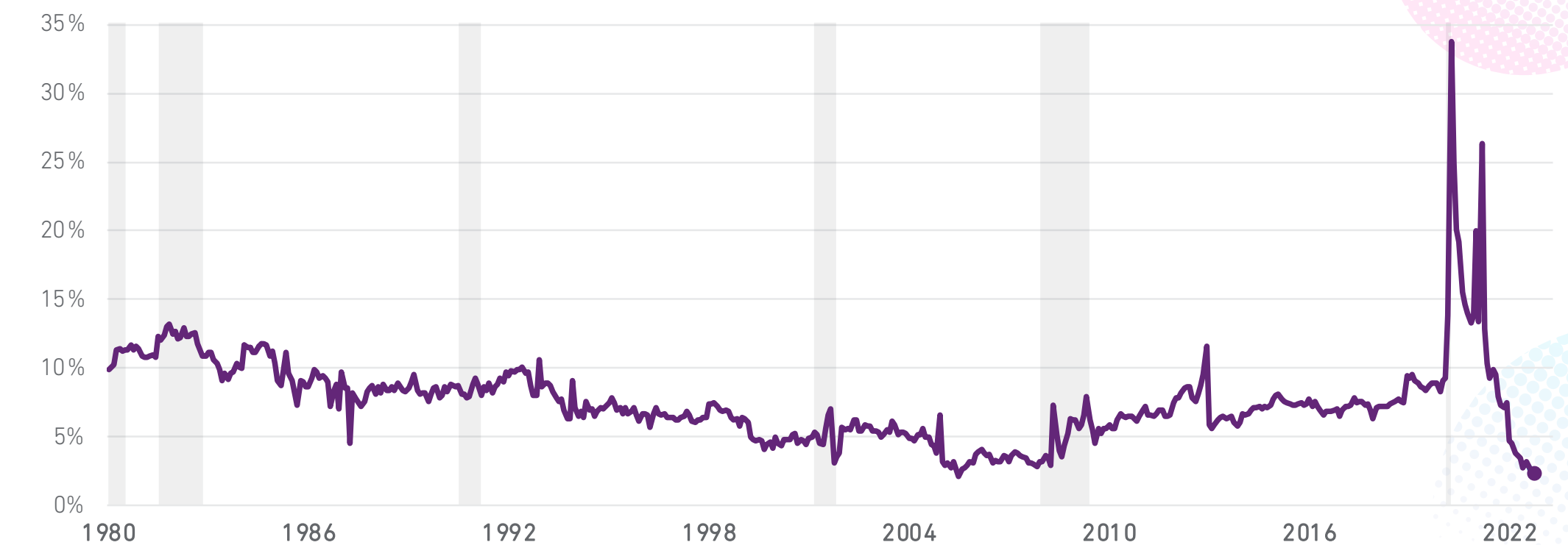
Inflation-adjusted personal consumption (in \$ billions, SAAR)



## Consumers are saving less but have cushion of cash

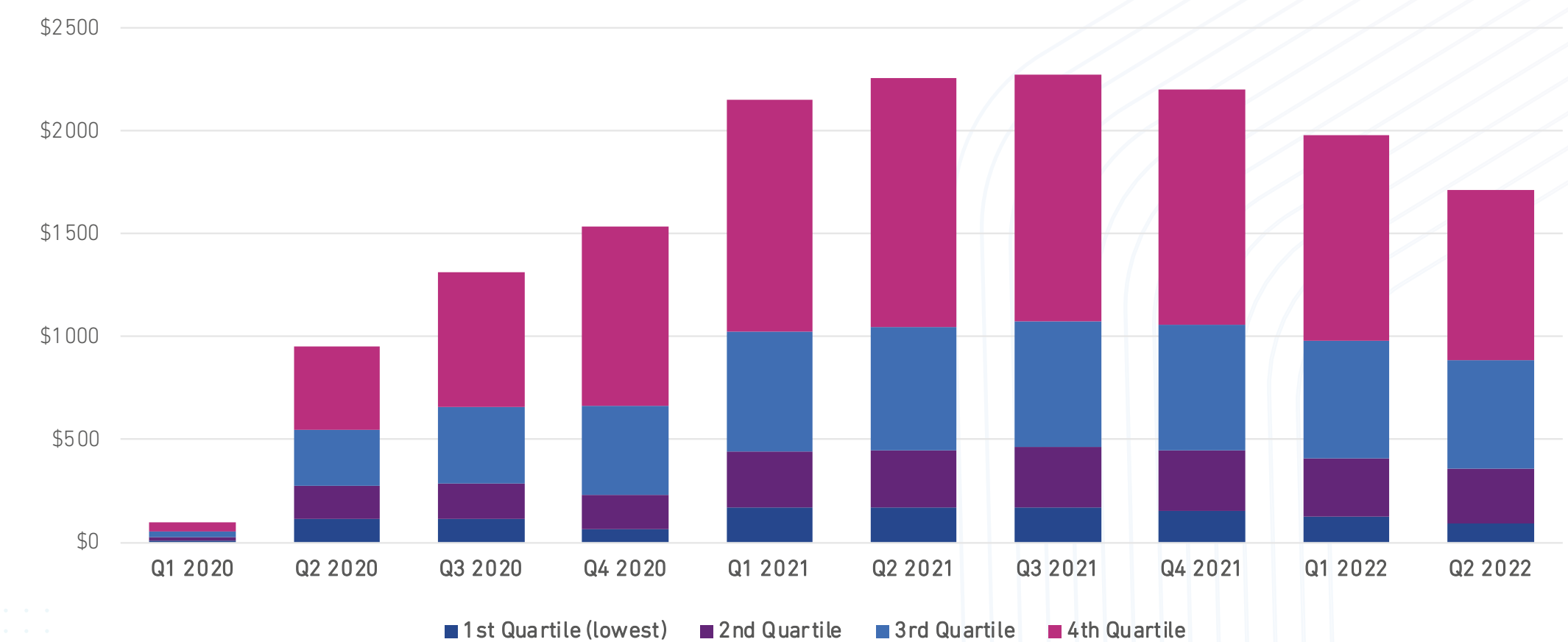
**Higher levels of spending coupled with waning incomes means the savings rate is near-record lows**

Personal savings rate, personal savings as a percentage of disposable income, SAAR



**However, consumers still – especially, higher-income households – have a large cushion of pandemic-era savings**

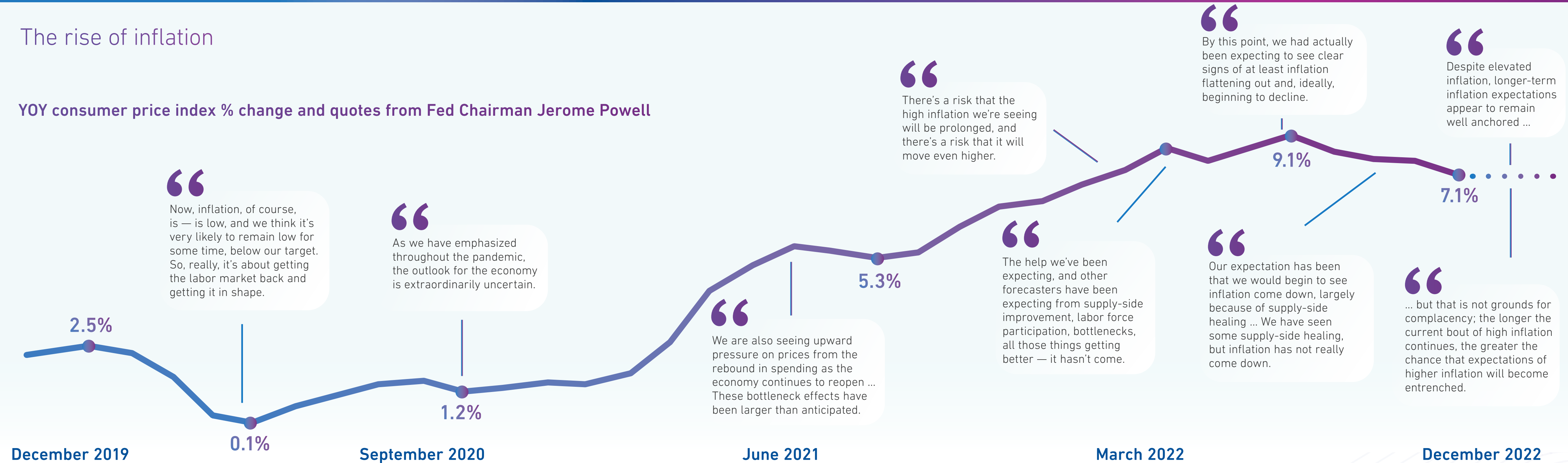
Level of excess savings by income quartile (in \$ billions)





## The rise of inflation

### YOY consumer price index % change and quotes from Fed Chairman Jerome Powell

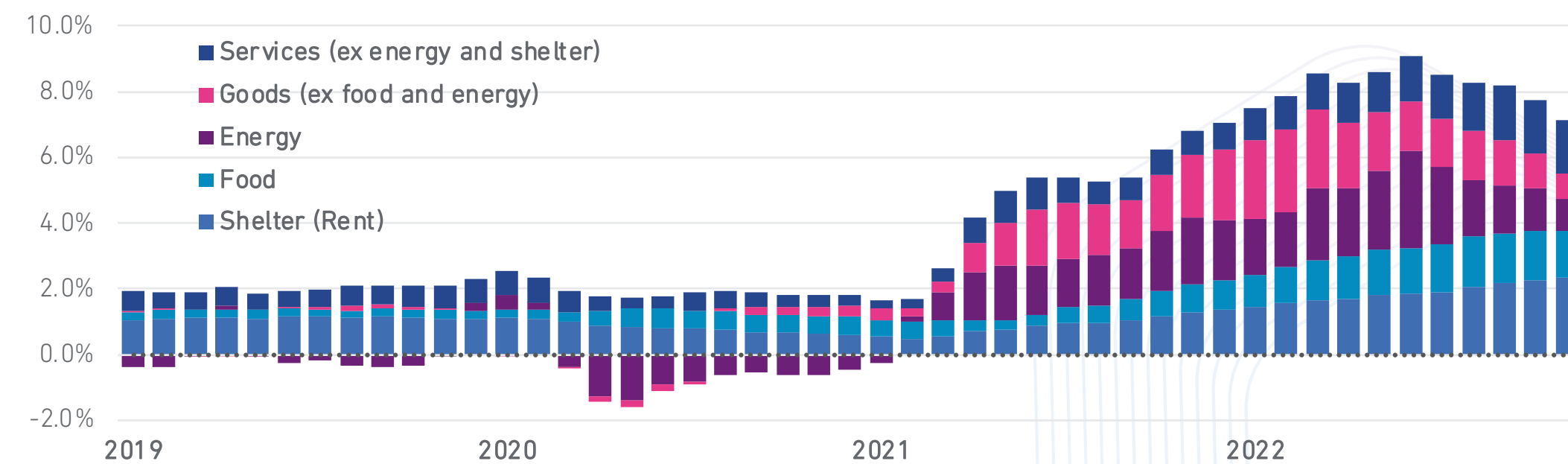


Source: Federal Reserve Board of Governors and Bureau of Labor Statistics

## High prices hit consumers and impact interest-rate policy

### Inflation appears to be moderating from its peak but continues to run hot in key household essentials

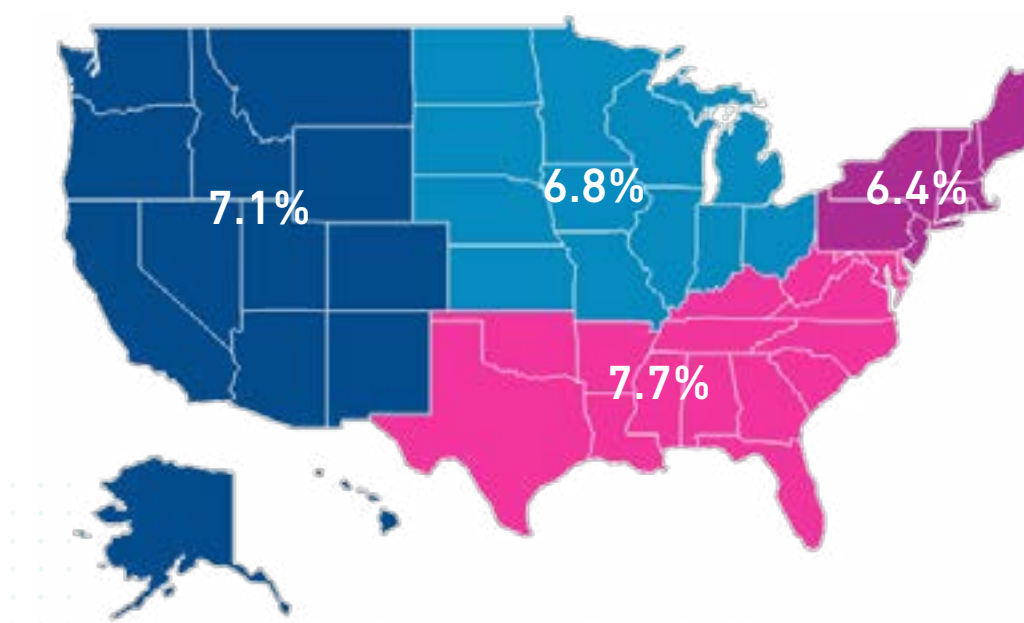
Select contributions to YOY % change in the Consumer Price Index



Source: Bureau of Labor Statistics and author's calculation

### Prices have risen the most in the West and South

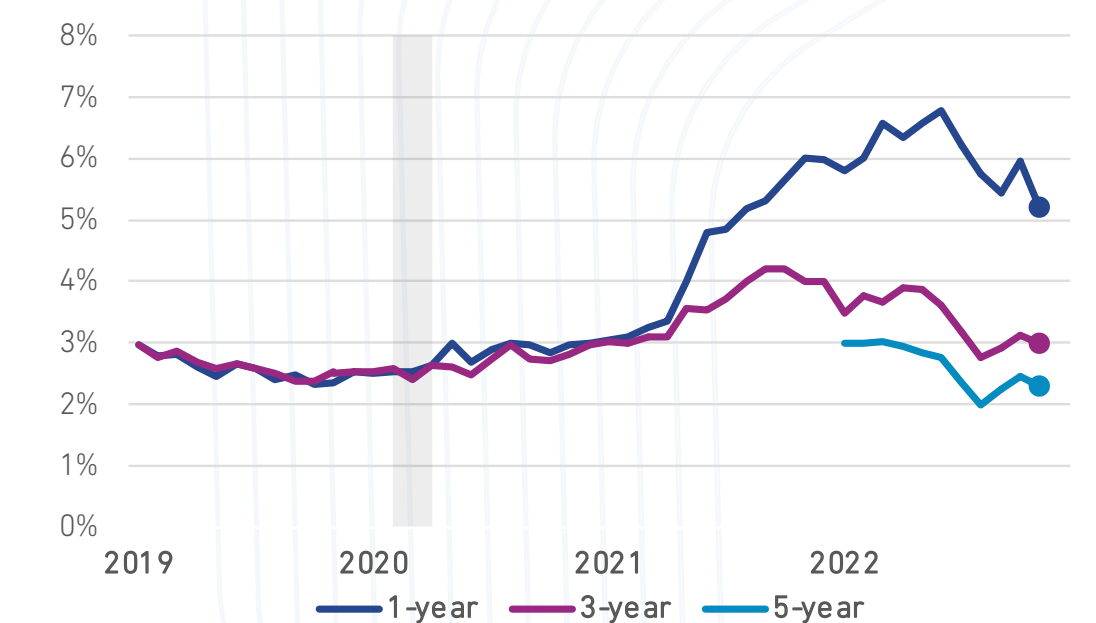
Consumer Price Index YOY % change by region



Source: Bureau of Labor Statistics

### Consumers still see short-term price pressures

Median 1, 3, and 5-year ahead expected inflation rate



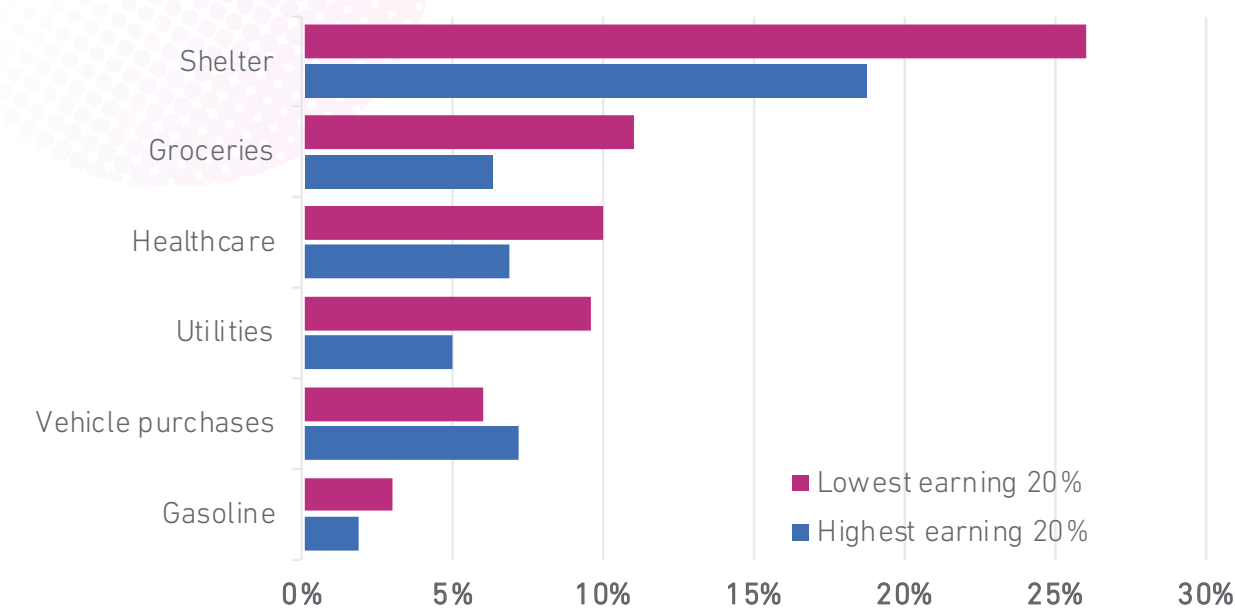
Source: Federal Reserve Bank of New York



## Impact of inflation falls on those who can least afford it

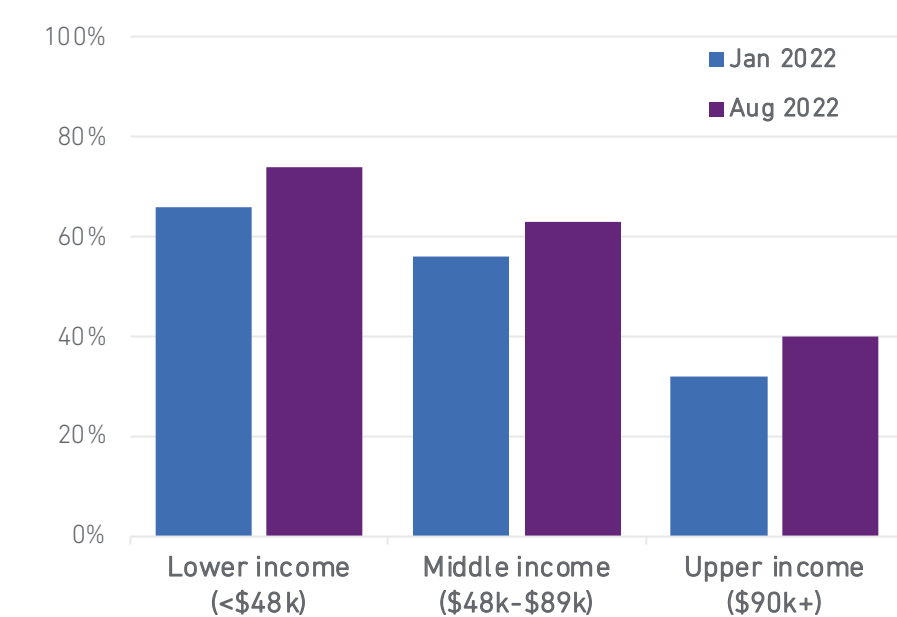
Lower-income groups are the most exposed to inflation (left chart), but more hardship is being reported across the board (right chart)

Share of spending by select income group



Source: Bureau of Labor Statistics

Price increases causing financial hardship by income



Source: Gallup, "Inflation Now Causing Hardship for Majority in US"

Lower-income consumers — especially those designated as “sensitive” to inflation — are seeing delinquency rates rise

30+ days past due by income and sensitivity (to the inflationary environment) group

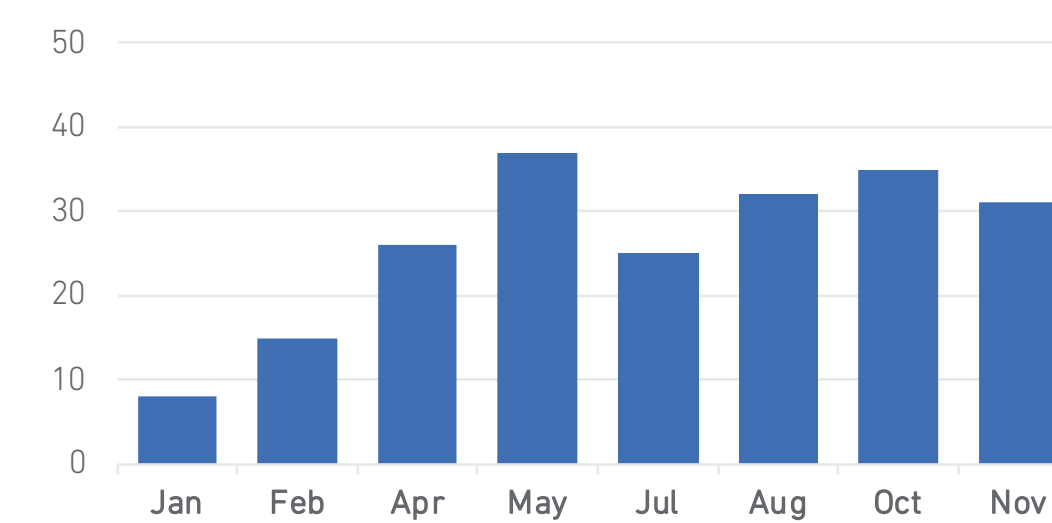


Source: Experian internal calculations. Consumers are segmented into “sensitive” and “less sensitive” groups based on their payment pattern, balance activity and card usage behavior.

## Some signals inflation has peaked but pressures remain

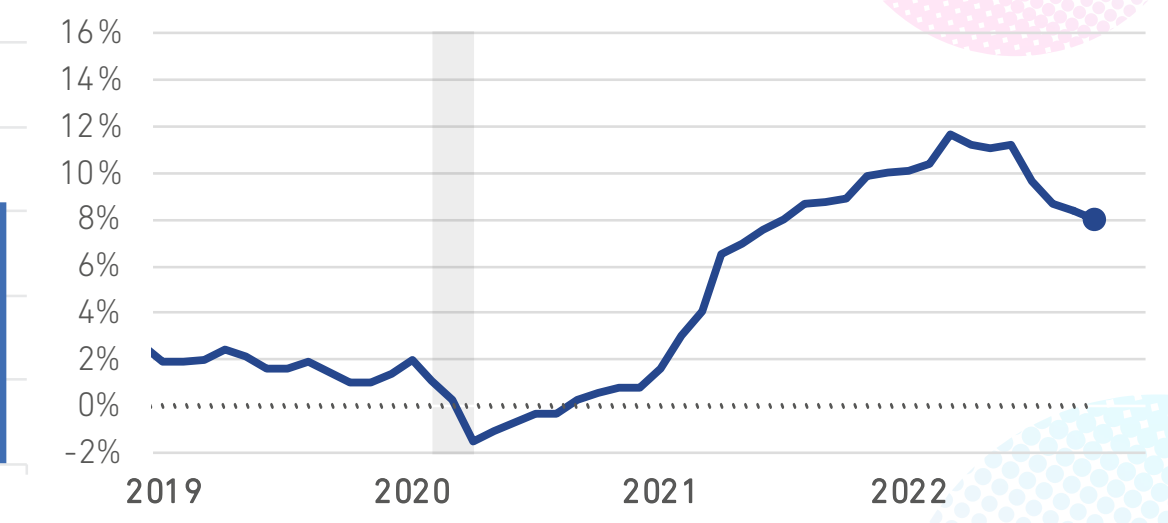
Businesses continue to discuss inflation impact (left chart), but input costs are starting to ease (right chart) ...

Beige Book mentions of “inflation” in 2022



Source: Federal Reserve Beige Book and Author's tabulation

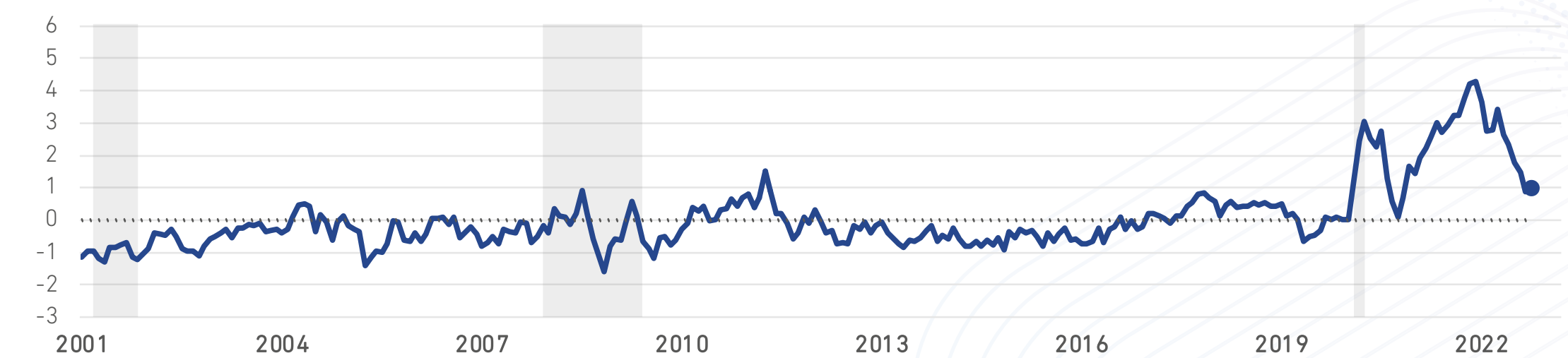
Producer Price Index, final demand, YOY % change



Source: Bureau of Labor Statistics

... and global supply chain issues are being resolved

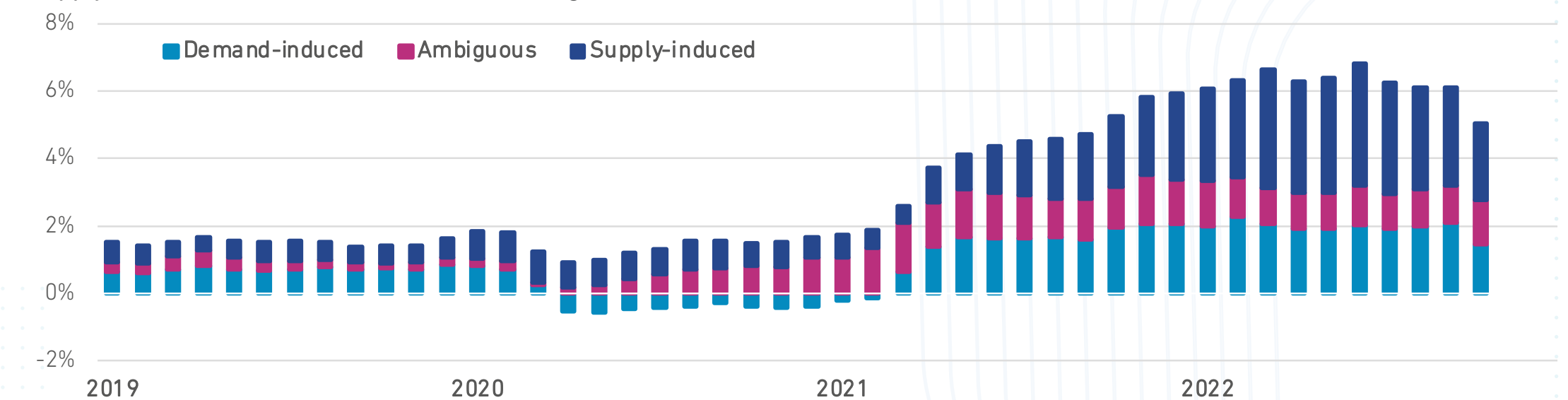
Global Supply Chain Pressure Index



Source: Federal Reserve Bank of New York

The big question is how long supply-induced inflation will last

Supply and demand contribution to YOY % change in PCE



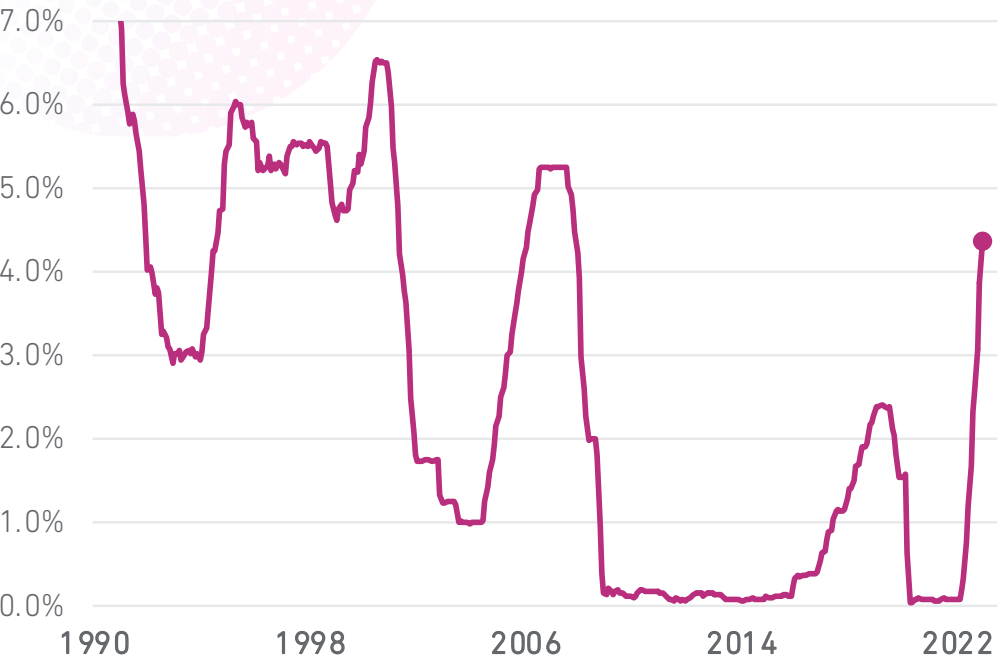
Source: Federal Reserve Bank of San Francisco



2022 was a year of playing catch-up to inflation

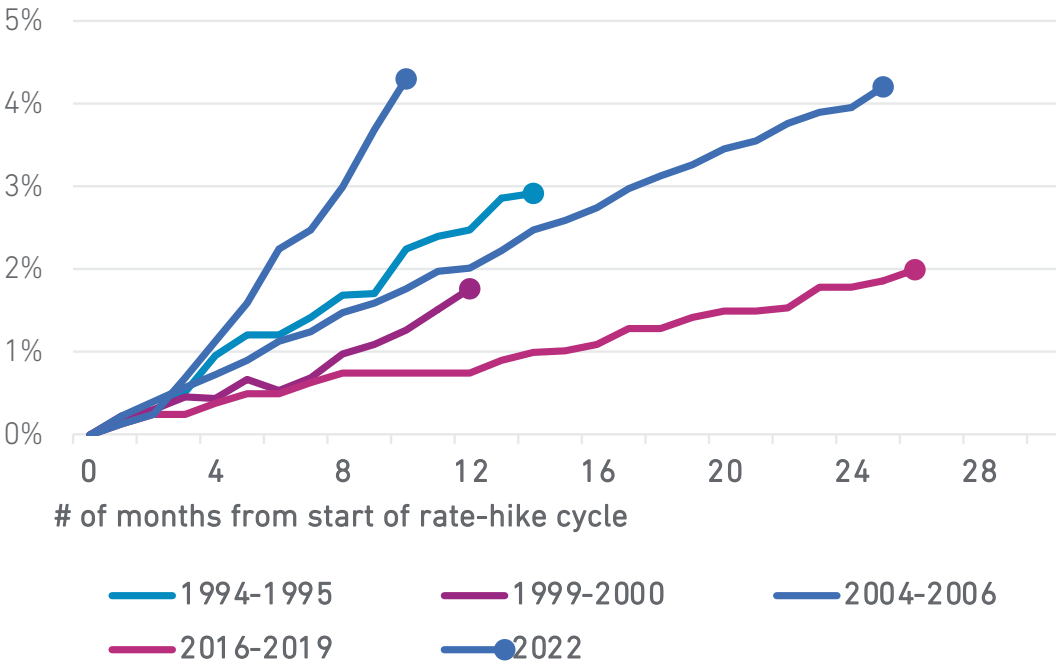
Fed officials have gone all in to rein in inflation in 2022 (left chart) with the most aggressive path of rate hikes since 1980s (right chart)

Effective federal funds rate (monthly)



Source: Federal Reserve

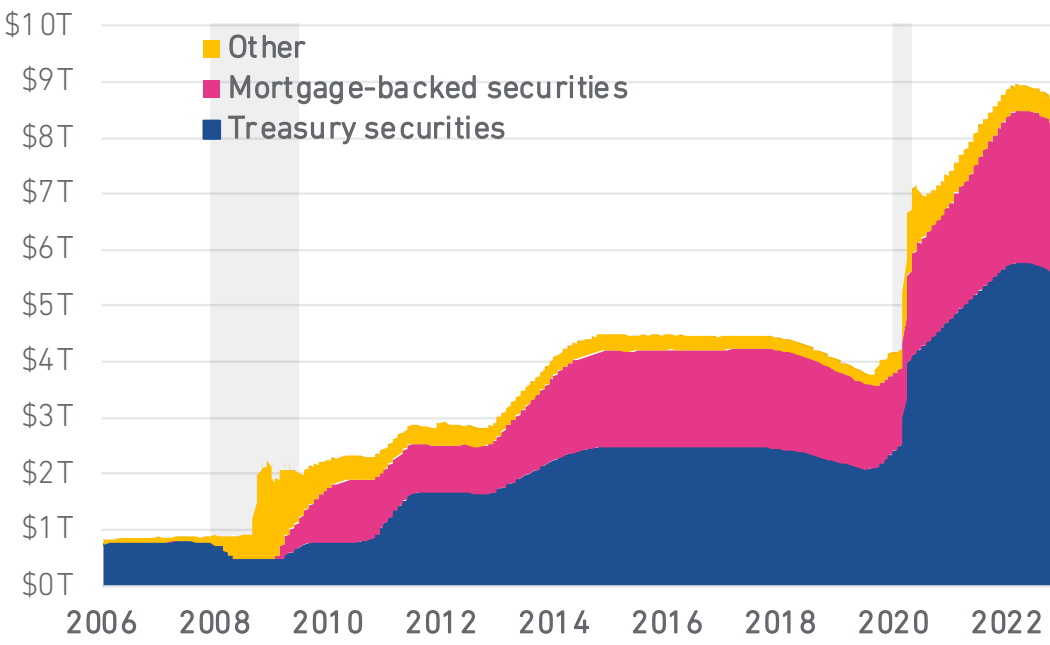
Increases in the federal funds rate during rate-hike cycles



Source: Federal Reserve and author's calculation

The Fed is also shrinking its balance sheet, which ballooned to ~\$9 trillion during the pandemic

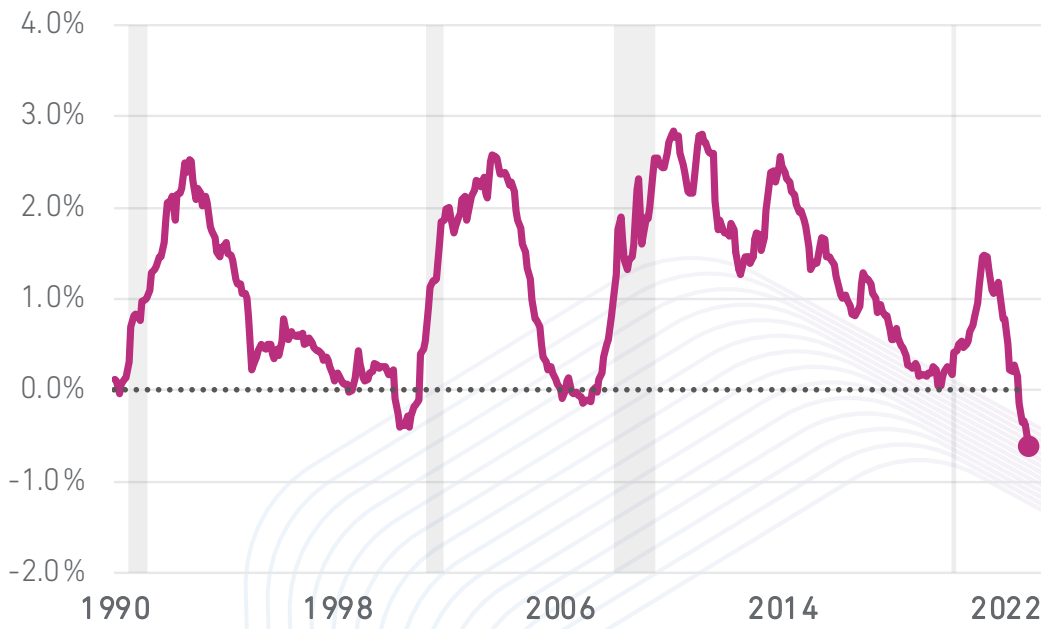
Federal Reserve balance sheet assets



Source: Federal Reserve Board of Governors

The Fed's actions have pushed short-term rates above long-term, a dynamic that has preceded prior recessions

10-year treasury minus 2-year treasury



Source: Federal Reserve Bank of St. Louis

Federal Open Market Committee members and calendar

FOMC voting members in 2023

- Jerome Powell – Fed Chair
- Lael Brainard – Board of Governors
- Lisa Cook – Board of Governors
- Philip Jefferson – Board of Governors
- Michael Barr – Board of Governors
- Michelle Bowman – Board of Governors
- Christopher Waller – Board of Governors
- John Williams – New York
- Austan Goolsbee – Chicago
- Patrick Harker – Philadelphia
- Neel Kashkari – Minneapolis
- Lorie Logan – Dallas

FOMC meeting calendar

- January 31–February 1
- March 21–22\*\*
- May 2–3
- June 13–14\*\*
- July 25–26
- September 19–20\*\*
- October 31–November 1
- December 12–13\*\*

\*\*Summary of Economic Projections to be released

“

The Federal Open Market Committee (FOMC) consists of 12 members — the seven members of the Board of Governors of the Federal Reserve System; the president of the Federal Reserve Bank of New York; and four of the remaining 11 Reserve Bank presidents, who serve 1-year terms on a rotating basis.

The FOMC holds eight regularly scheduled meetings per year. At these meetings, the Committee reviews economic and financial conditions, determines the appropriate stance of monetary policy, and assesses the risks to its long-run goals of price stability and sustainable economic growth.

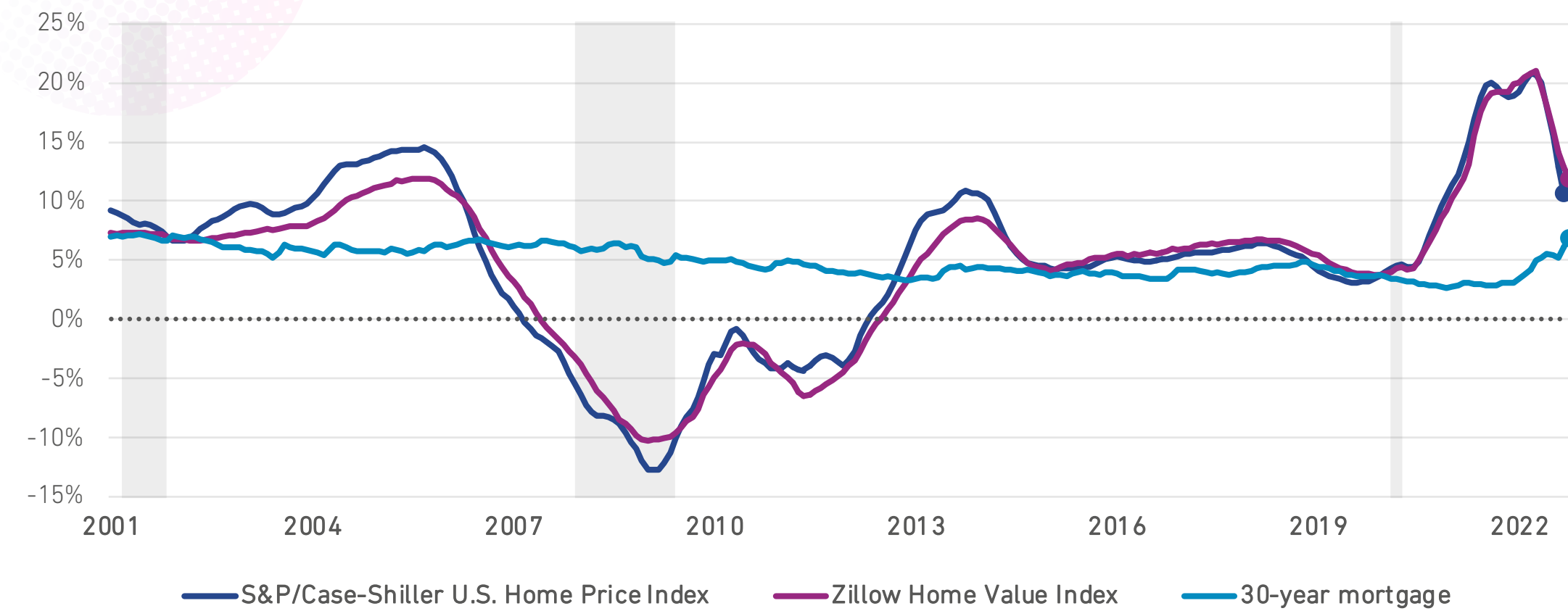
— Federal Reserve Board of Governors



## After a historic boom, the housing market is coming back to earth

Home prices grew rapidly across the country during the pandemic, but growth has quickly cooled as rates have risen

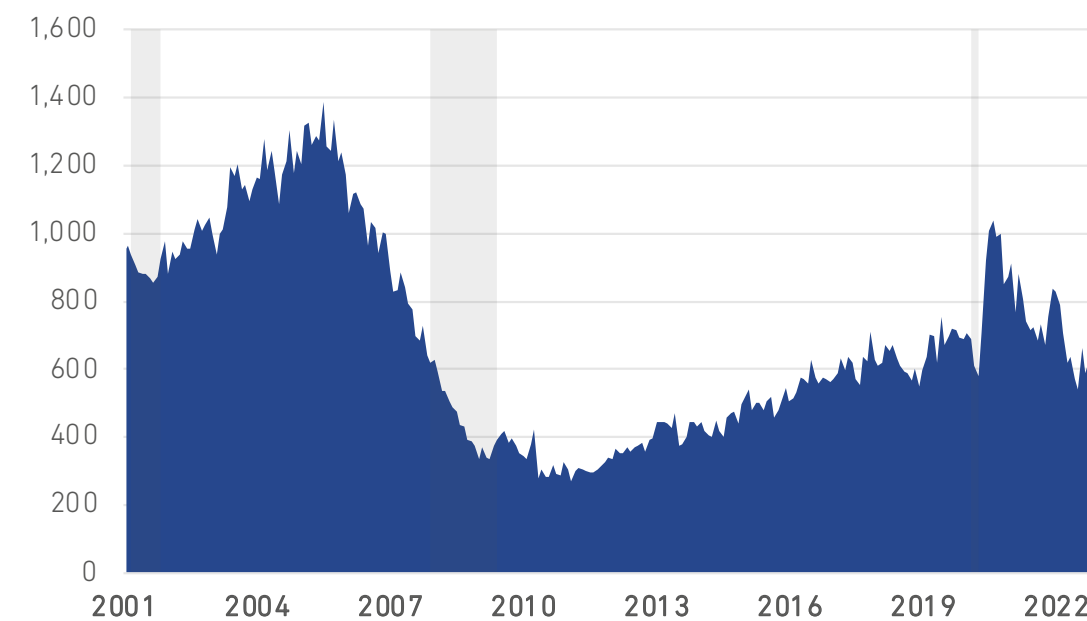
12-month % change in home values and 30-year fixed-rate mortgage (monthly)



Source: S&P/Case-Shiller National Home Price Index, Zillow Home Value Index, and Freddie Mac

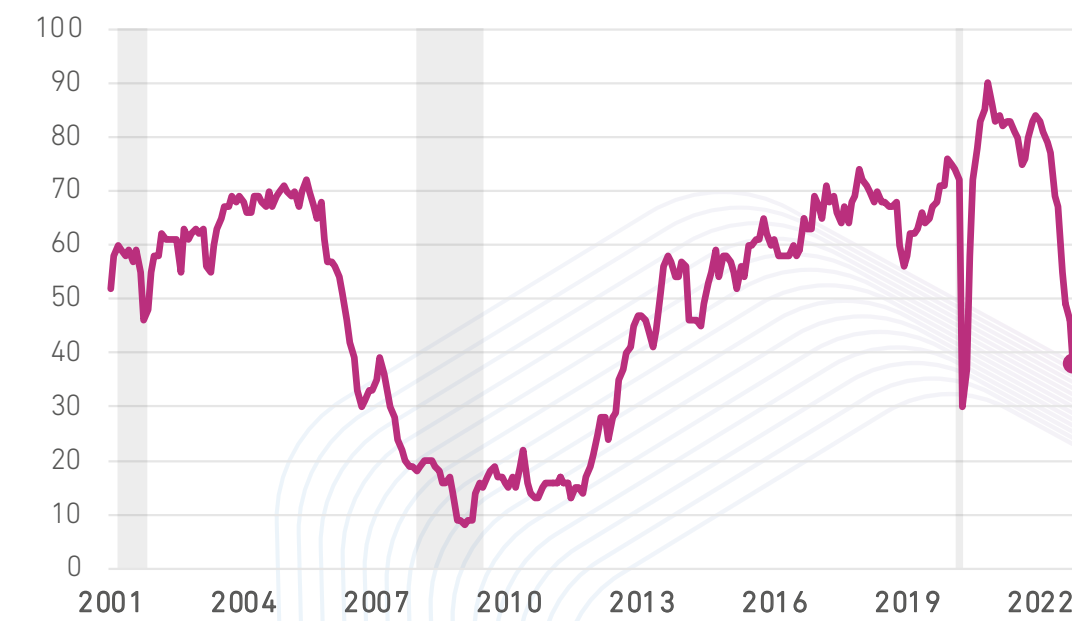
New home sales have slowed to pre-pandemic levels (left chart) and homebuilder sentiment has fallen for 11-straight months as affordability has constrained buyers (right chart)

New one-family houses sold (in thousands, SAAR)



Source: Census Bureau

Homebuilder sentiment

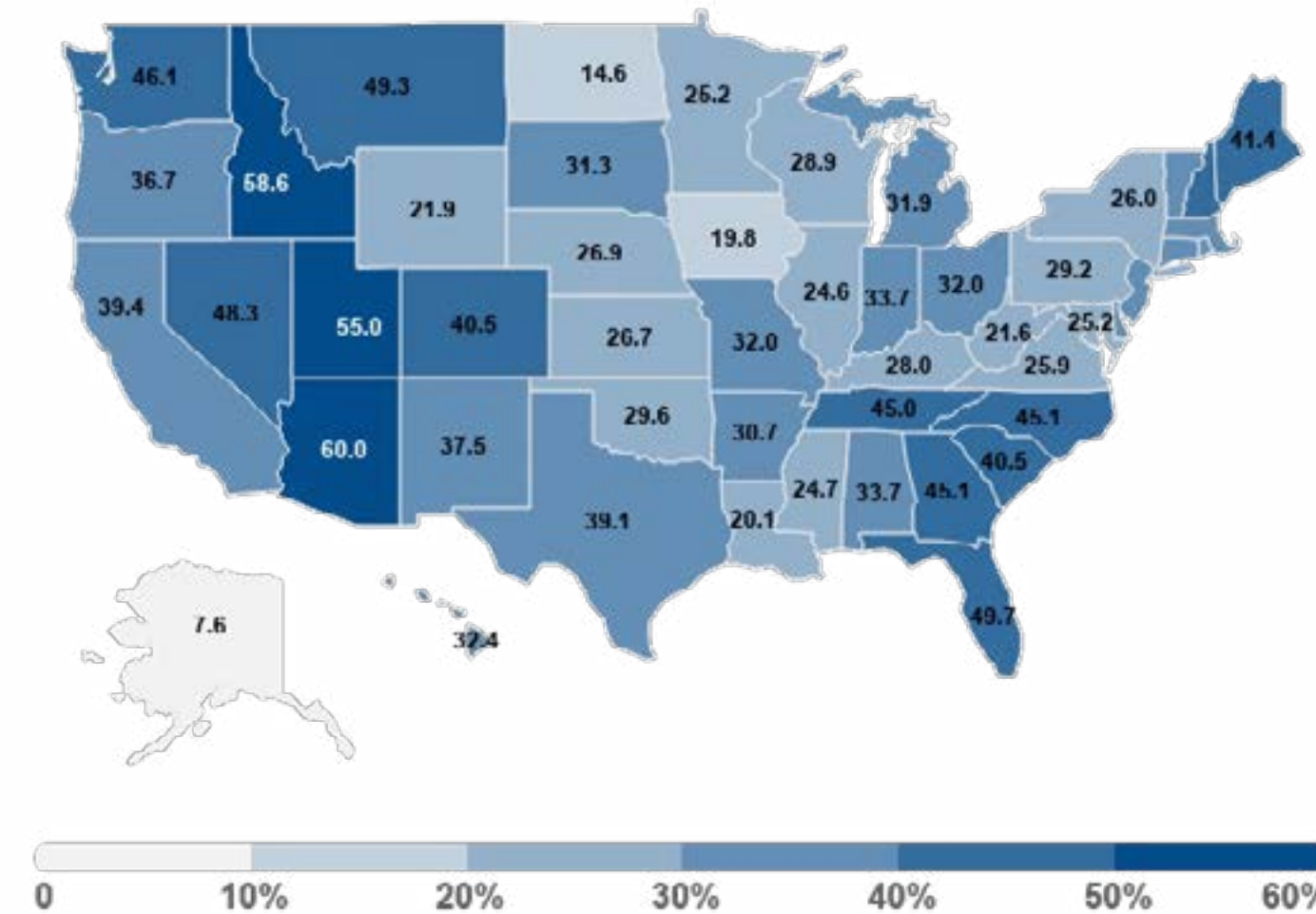


Source: National Association of Homebuilders/Wells Fargo

## Every state participated in the pandemic-era housing boom

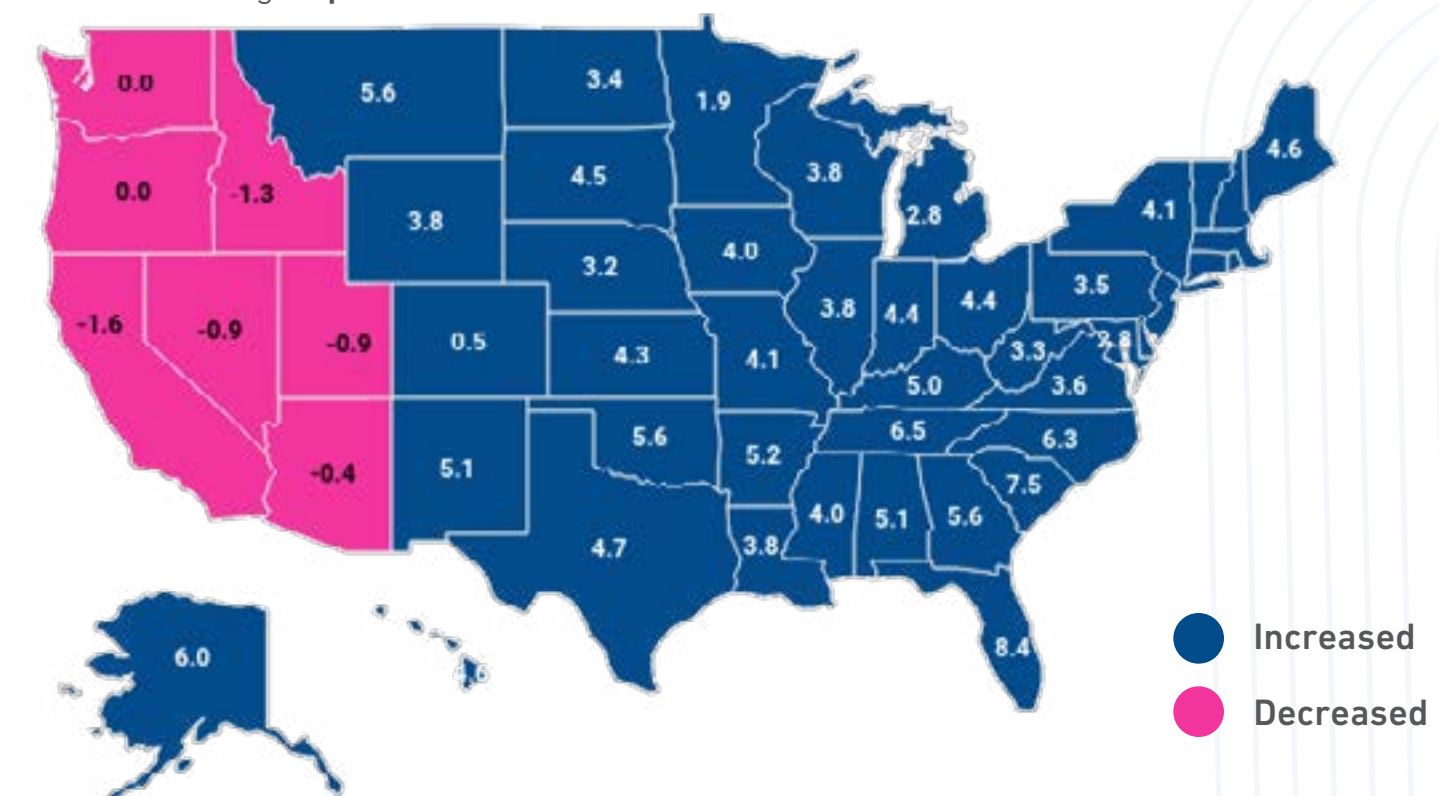
Largest price gains during the boom period were in the west and southeast ...

Home value % change February 2020–April 2022 (the peak of national price growth)



... but over the last six months, home values have begun to come down in some of the biggest boom states

Home value % change April 2022–October 2022



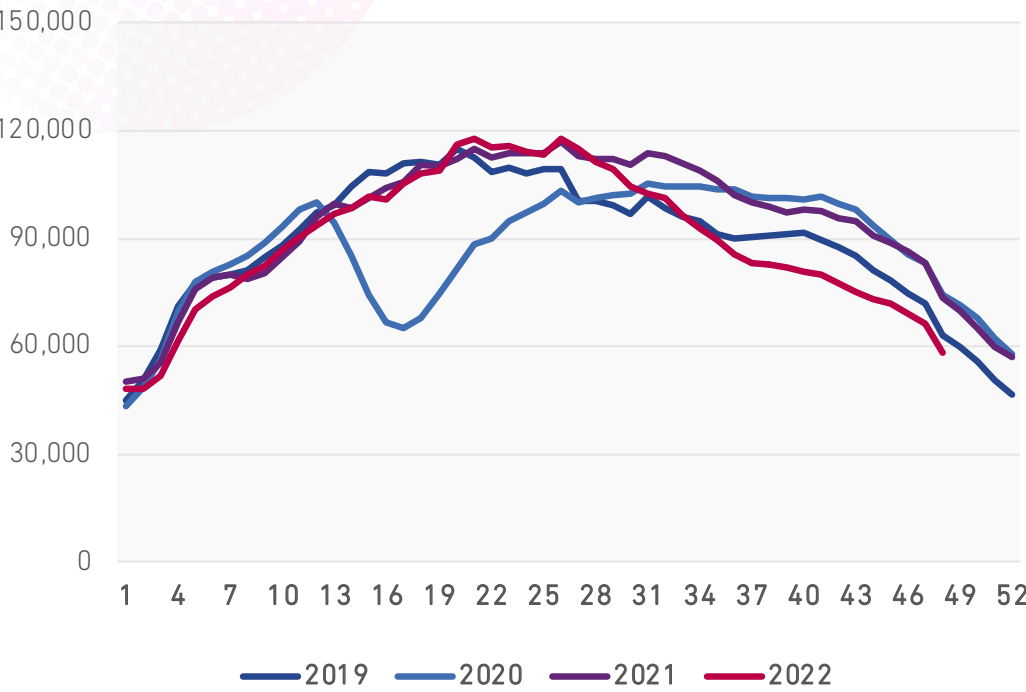
Source: Zillow Economic Research



High prices, high rates, and big equity cushions are limiting sales

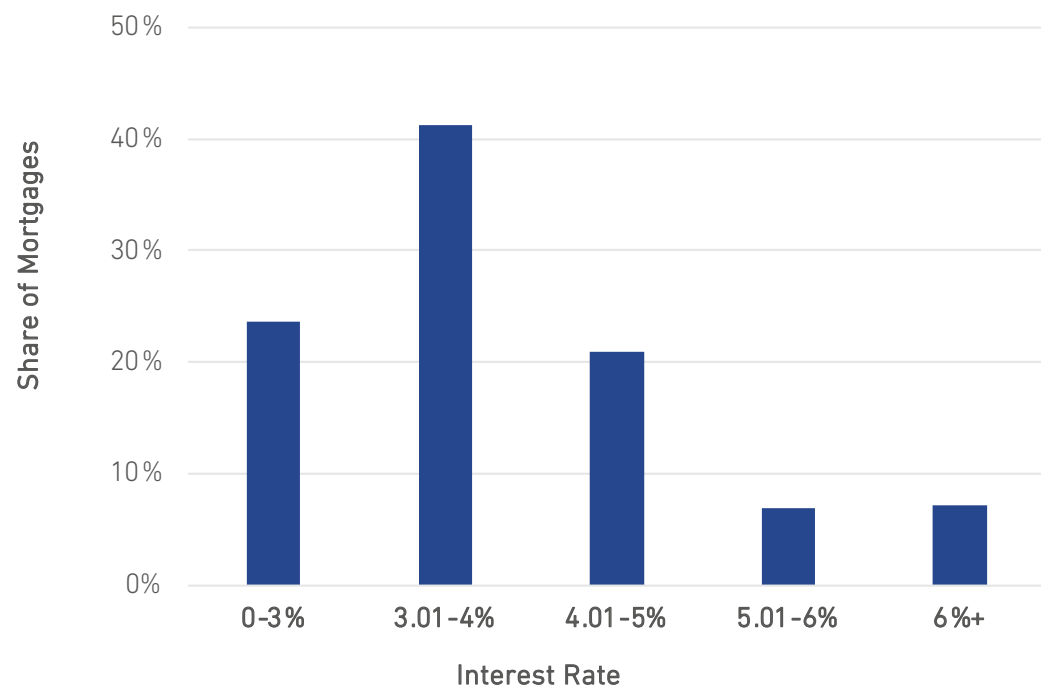
Even as prices have eased, there's been a reluctance to sell (left chart) given the high price to buy another house and since most homeowners' current mortgage is under 4% (right chart)

New listings of homes for sale



Source: Redfin Housing Market Data

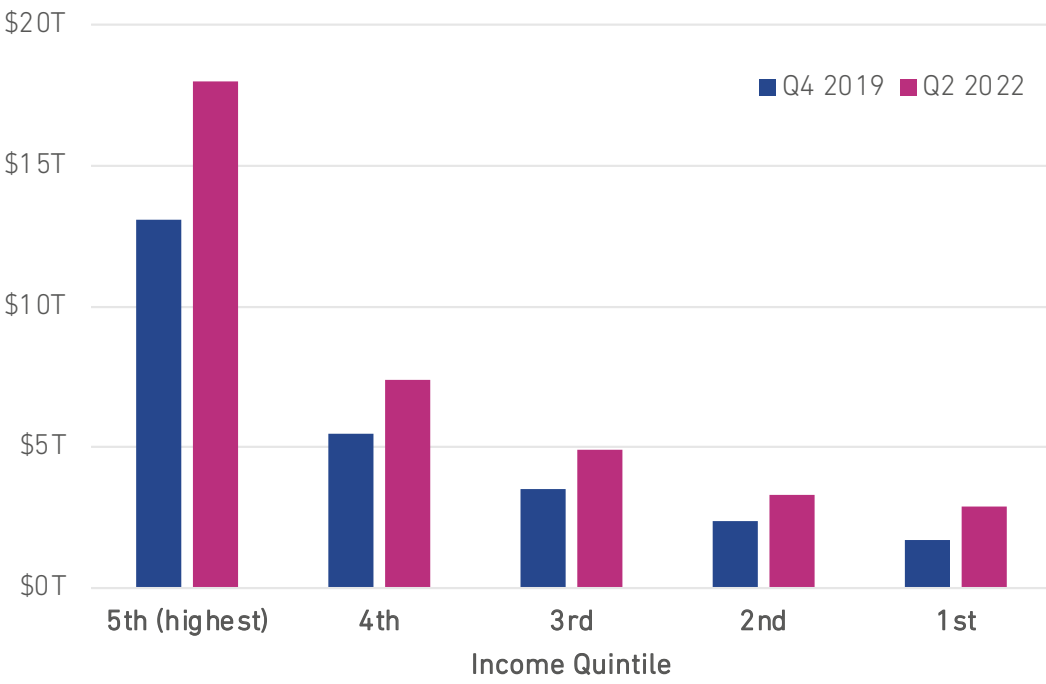
Share of outstanding mortgages at contracted rate



Source: FHFA National Mortgage Database

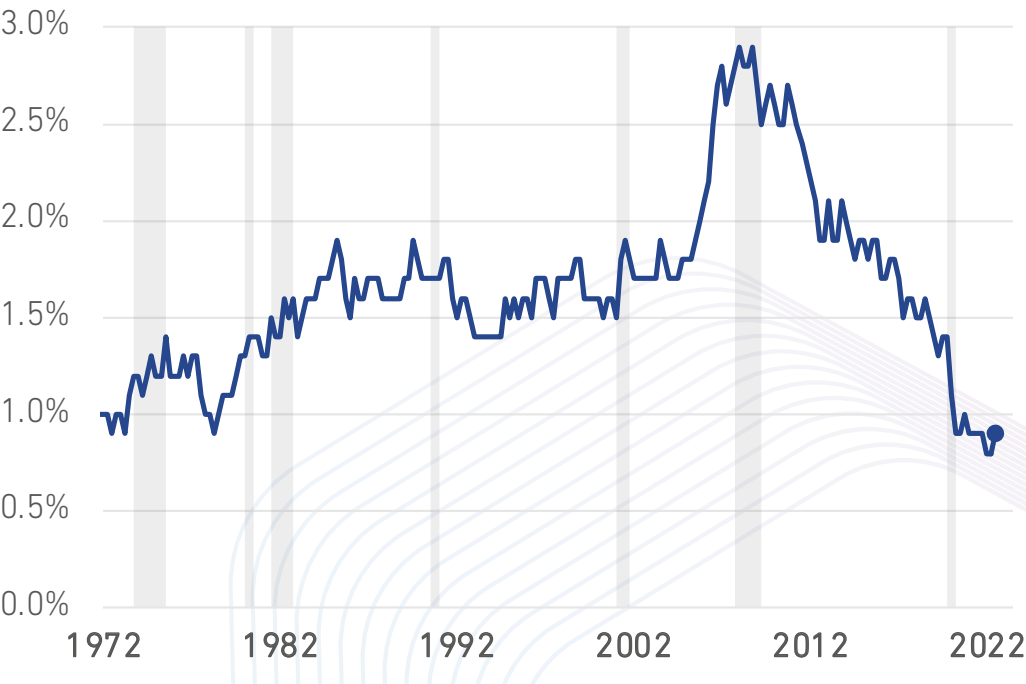
The pandemic boom has given many homeowners a large equity cushion, which reduces the need to stress sell (left chart), and the overall lack of available housing may provide an additional buffer to price declines (right chart)

Real estate assets by income in Q4 2019 vs. Q2 2022



Source: Federal Reserve Distributional Accounts

Percent of homeowner inventory vacant for sale

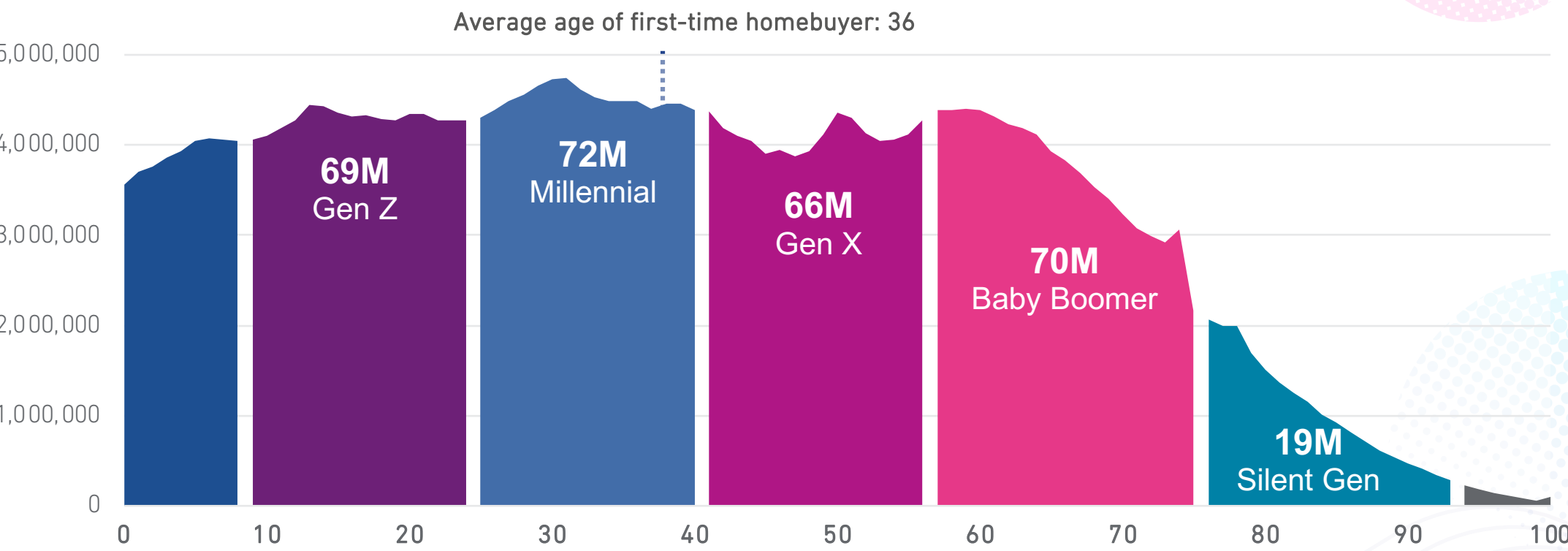


Source: Census Bureau

Generational tailwind for housing

Demographics to support the housing market as millennials are reaching their prime homebuying years

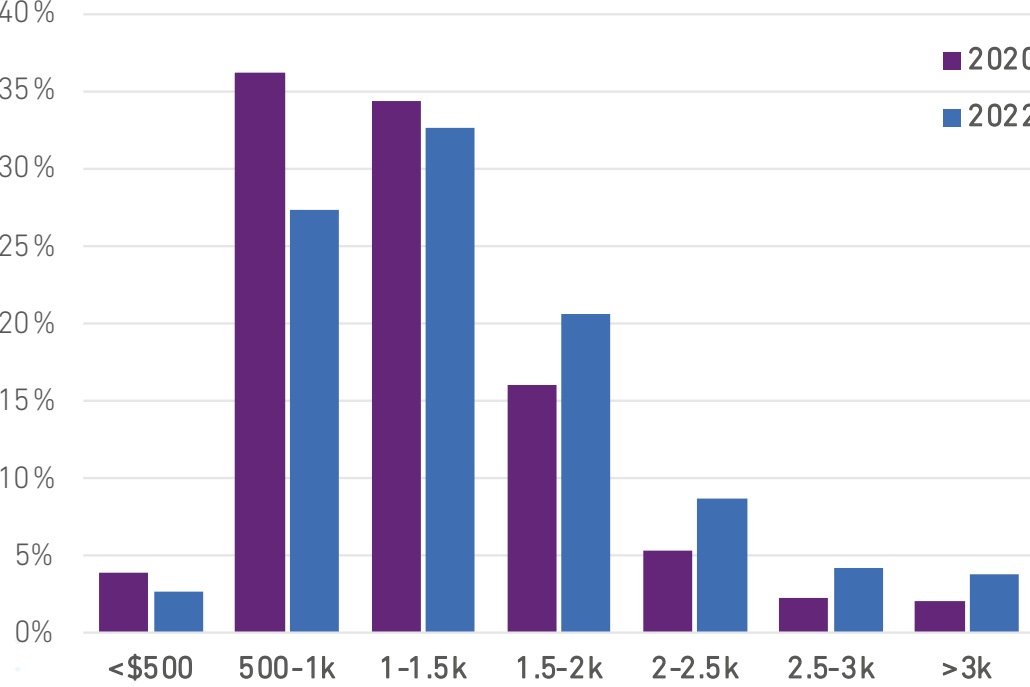
U.S. population by age and generation



Source: Census Bureau and author's calculation, Pew Charitable Trust and National Association of Realtors

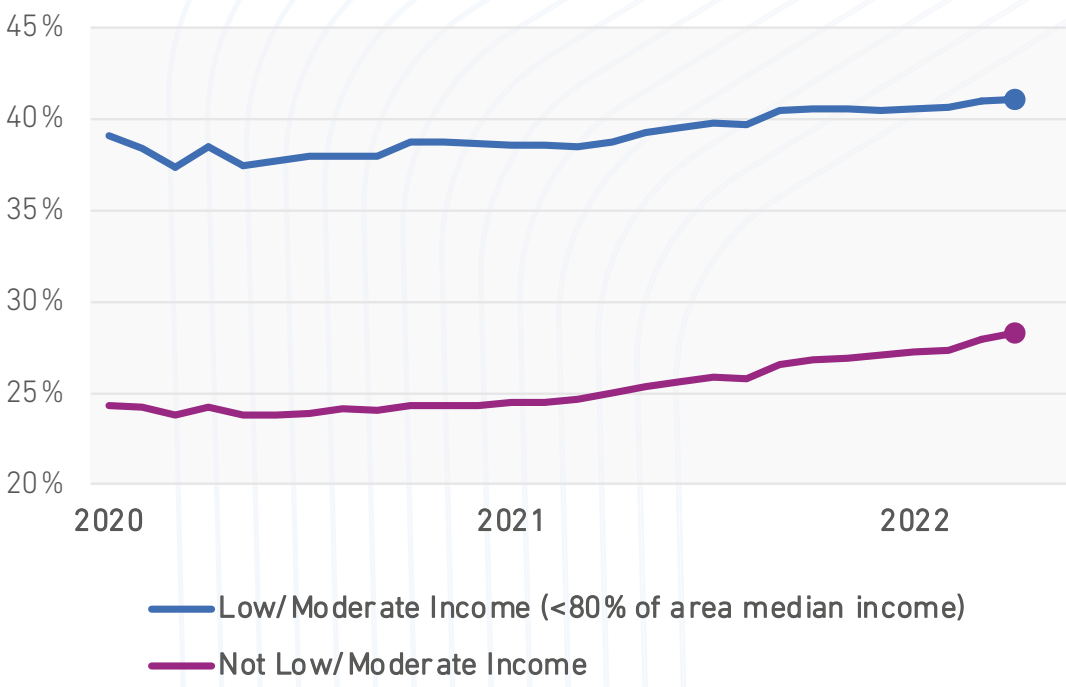
The home price boom and changing work-from-home patterns also fueled a rise in the cost to rent (left chart), which has challenged consumers, especially those who can least afford it (right chart)

Distribution of average rent paid 2020 vs. 2022



Source: Experian® RentBureau® and Income Insights data

Share of rent to income

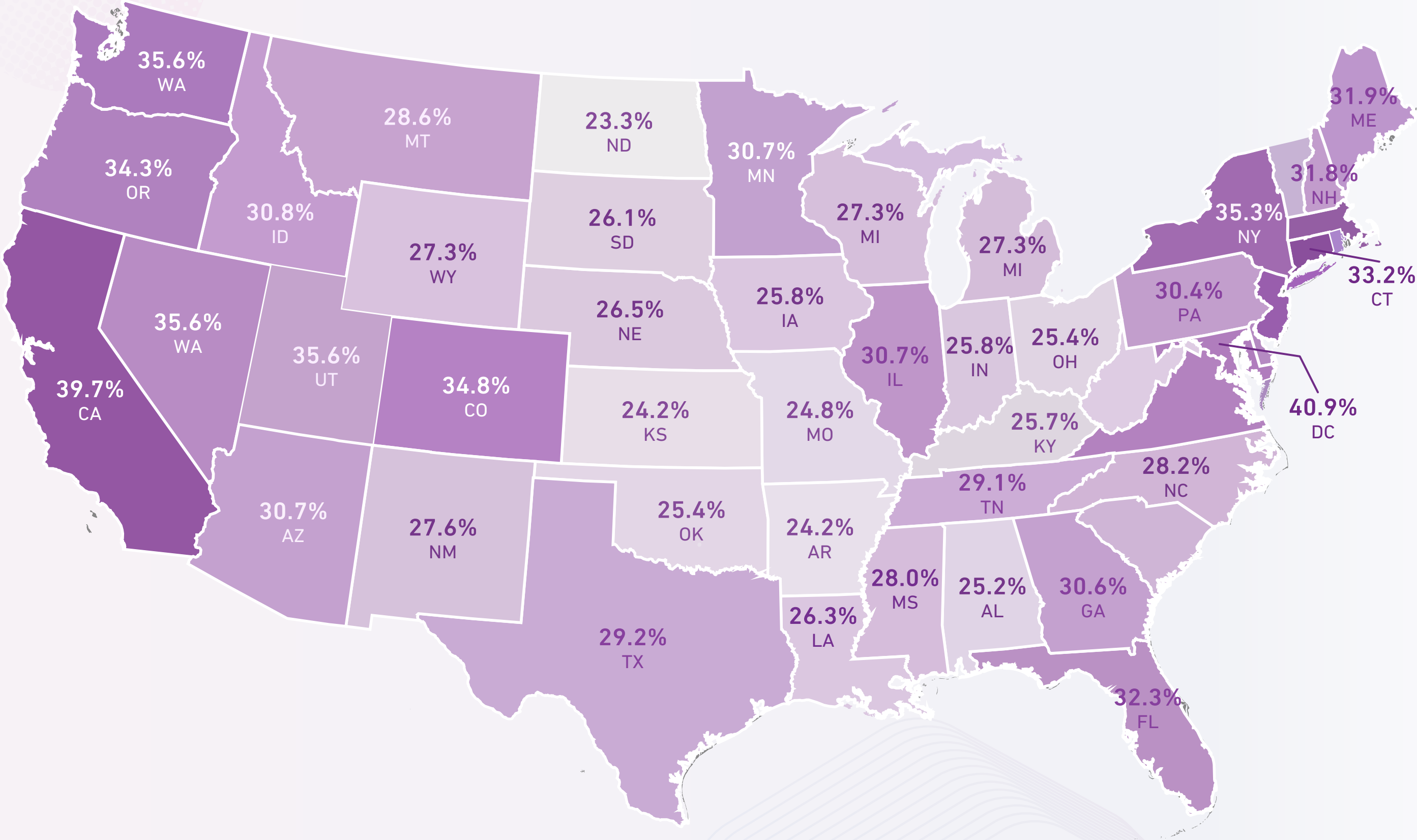




# Rental crunch could ease in 2023 as more properties come online

## Rent-to-income ratio is the most challenging in the west and northeast

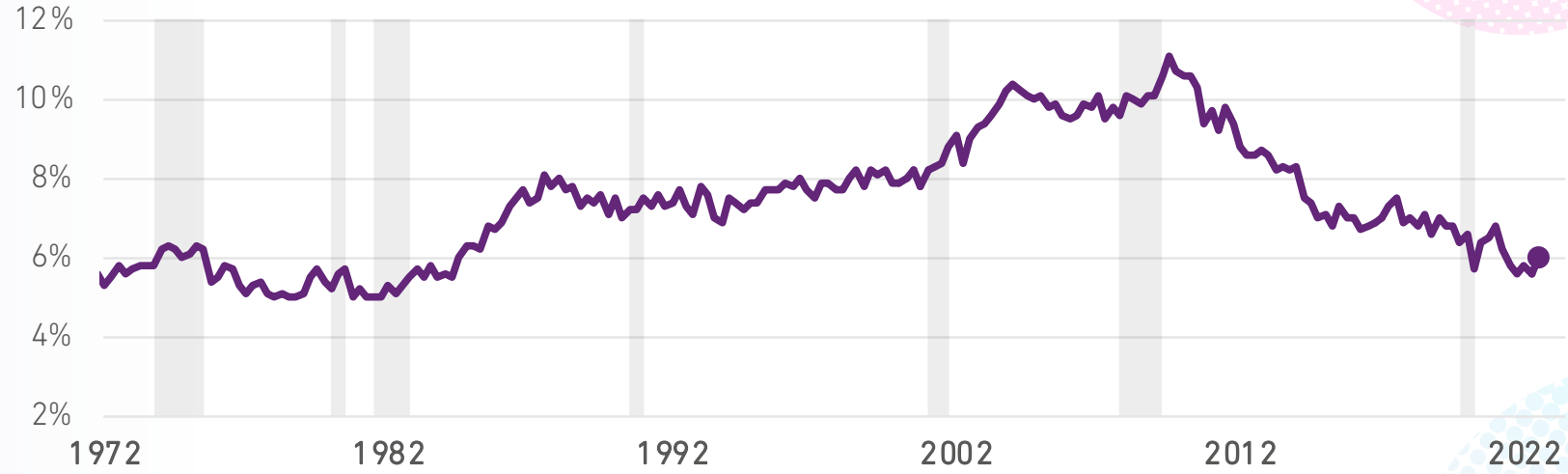
Share of rent-to-income ratio by state



Source: Experian Rent Bureau and Income Insights data

## Similar to the for-sale housing market, rental has also suffered from an inventory supply crunch ...

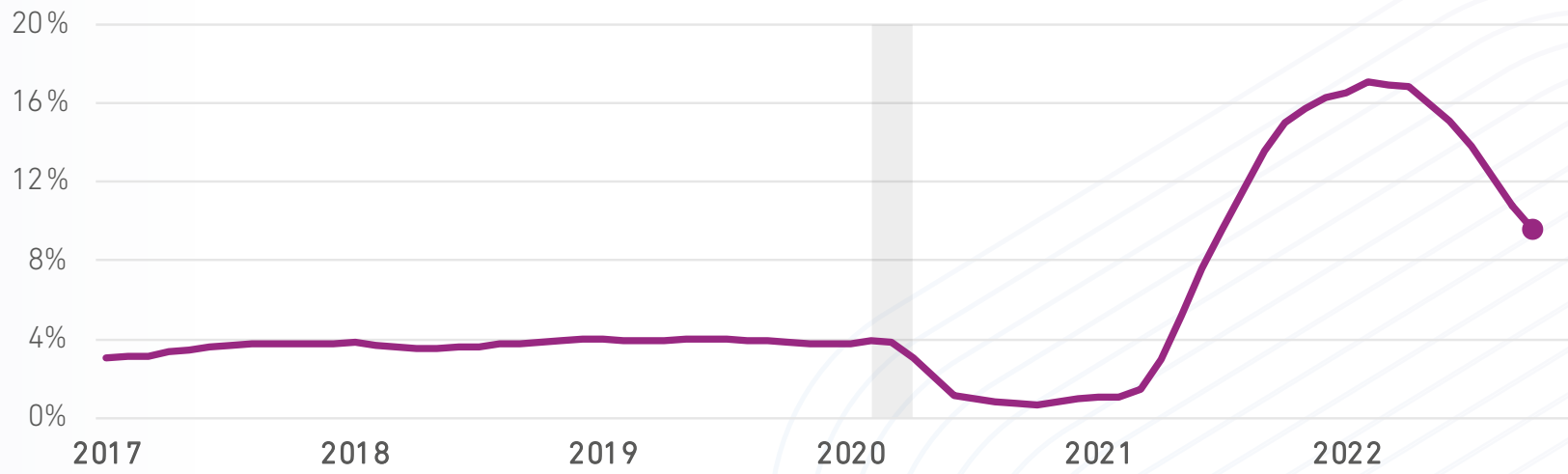
U.S. population by age and generation



Source: Census Bureau

## ... but rents are starting to ease in tandem with the broader housing market

12-month % change in Zillow Observed Rent Index



Source: Zillow Housing Market Data

## And a record number of multifamily units are under construction

Multifamily (5+units) under construction (in thousands)



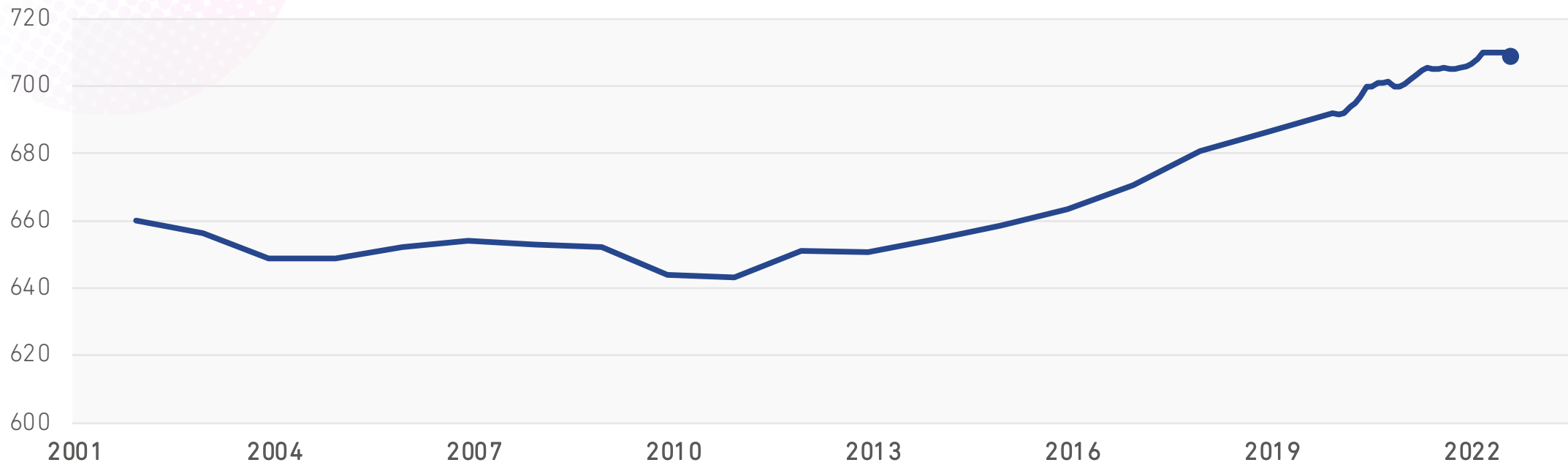
Source: Census Bureau



Pandemic-era stimulus and consumer behavior lifted credit scores and lowered debt burdens

Credit scores rose as consumers used stimulus to pay down debt and save, but the trend is starting to normalize

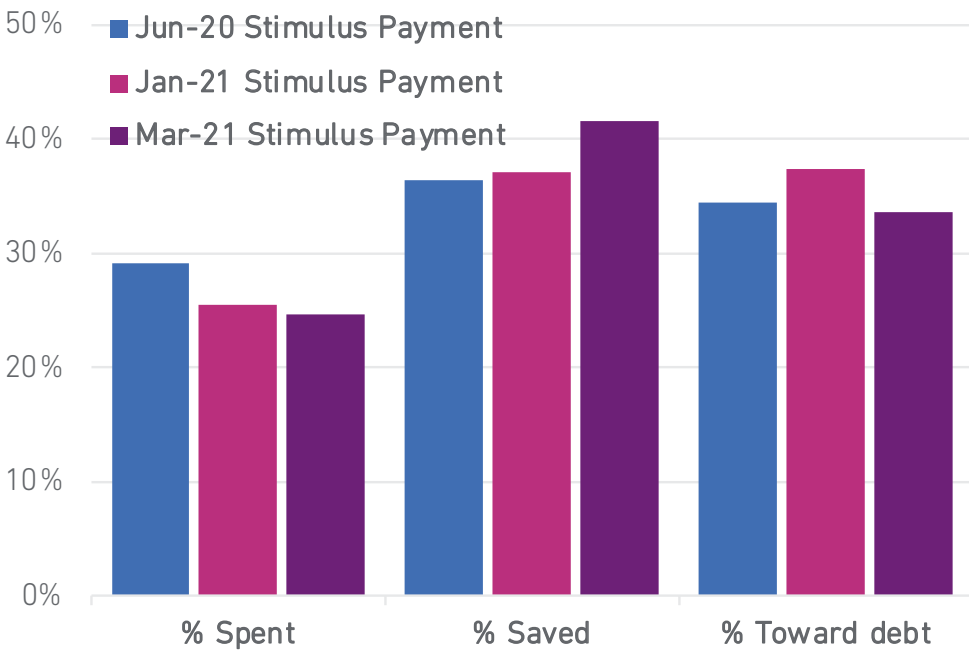
Median VantageScore® version 4



Source: Experian's Ascend Analytical Sandbox™  
\* VantageScore is a registered trademark of VantageScore Solutions, LLC.

Consumer actions during the pandemic mean that many are still in solid shape heading into 2023

How households used their stimulus checks



Source: New York Fed and Survey of Consumer Expectations

Overall debt loads remain subdued, even as they have risen off their pandemic lows

Household debt service payments as a percent of disposable personal income

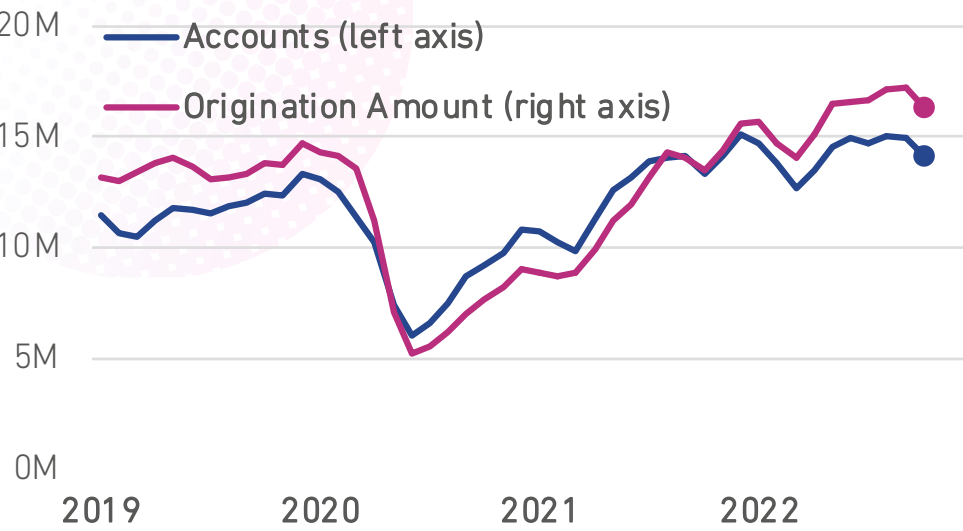


Source: Federal Reserve Board of Governors, Household Debt Service Ratio

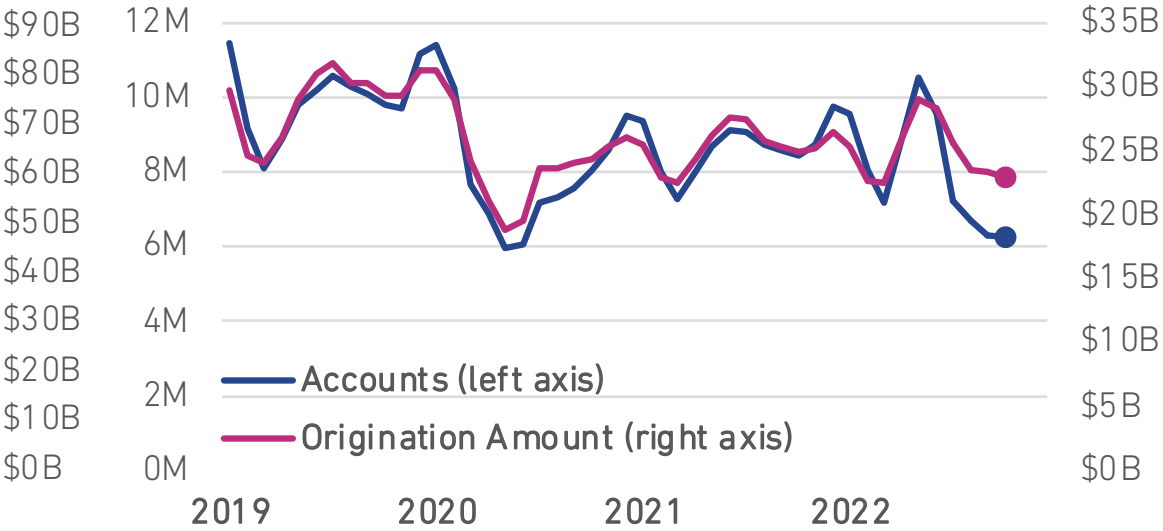


Origination roundup

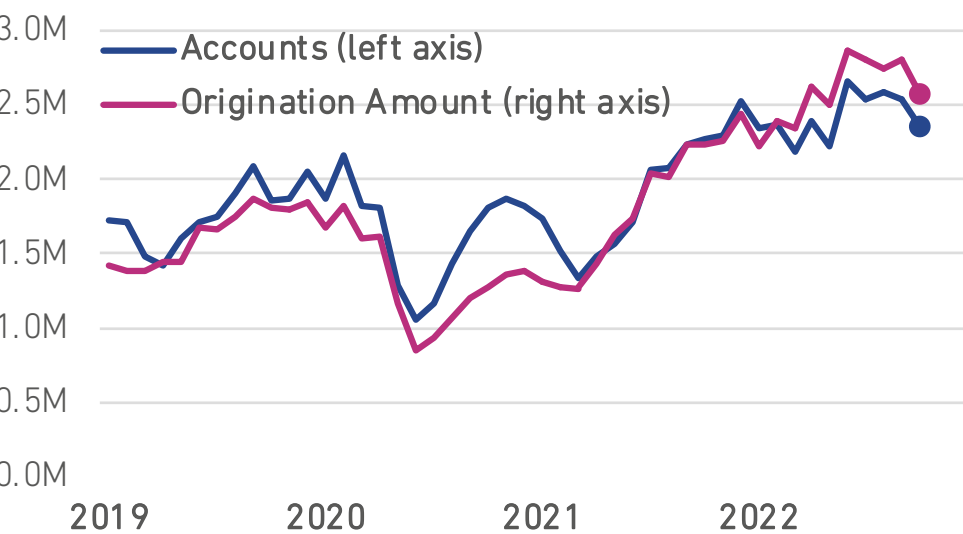
Bankcard



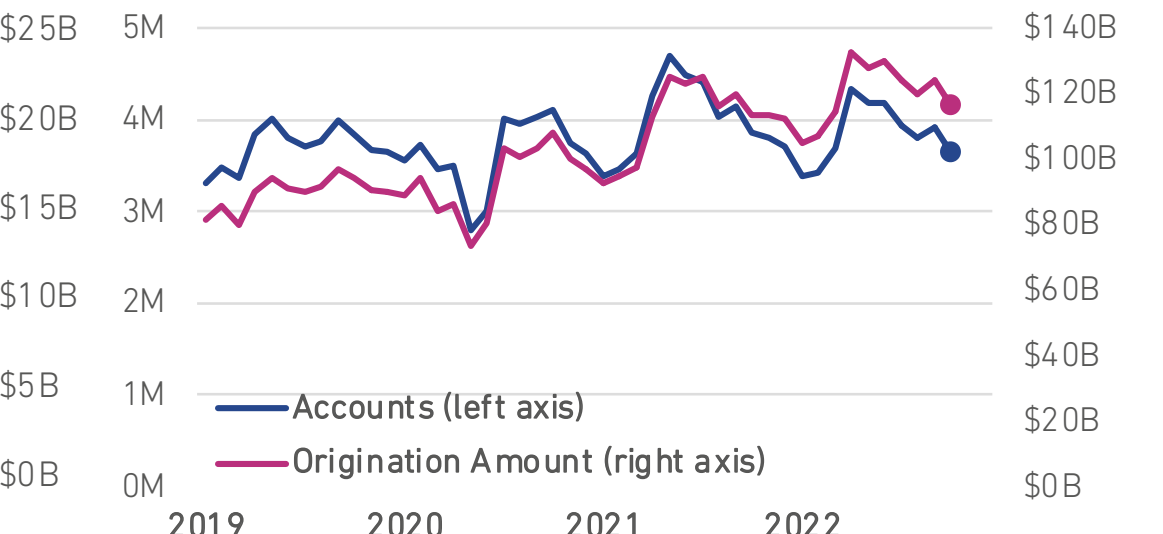
Retail card



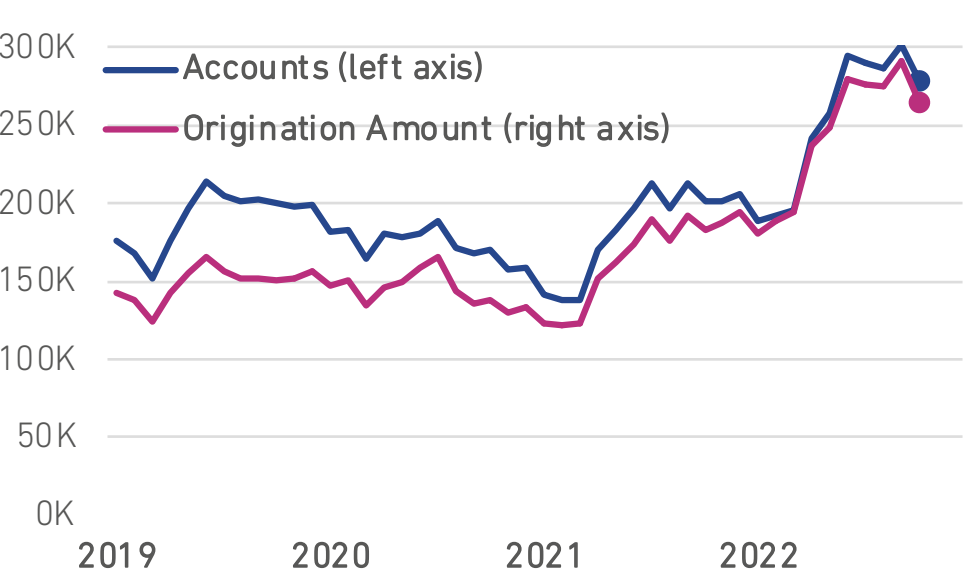
Unsecured Personal Loan



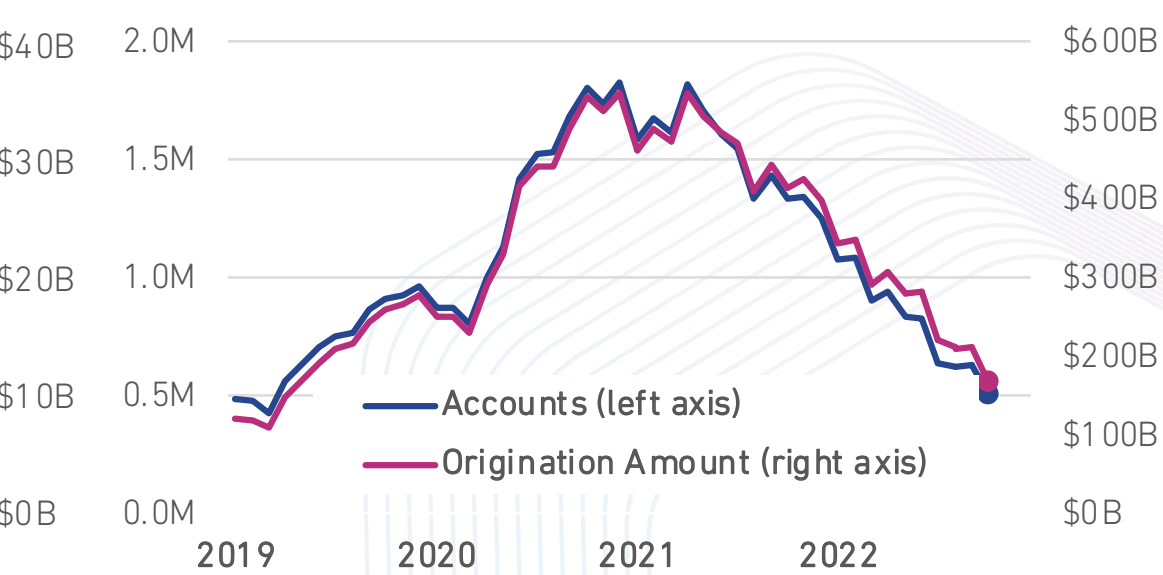
Auto



HELOC



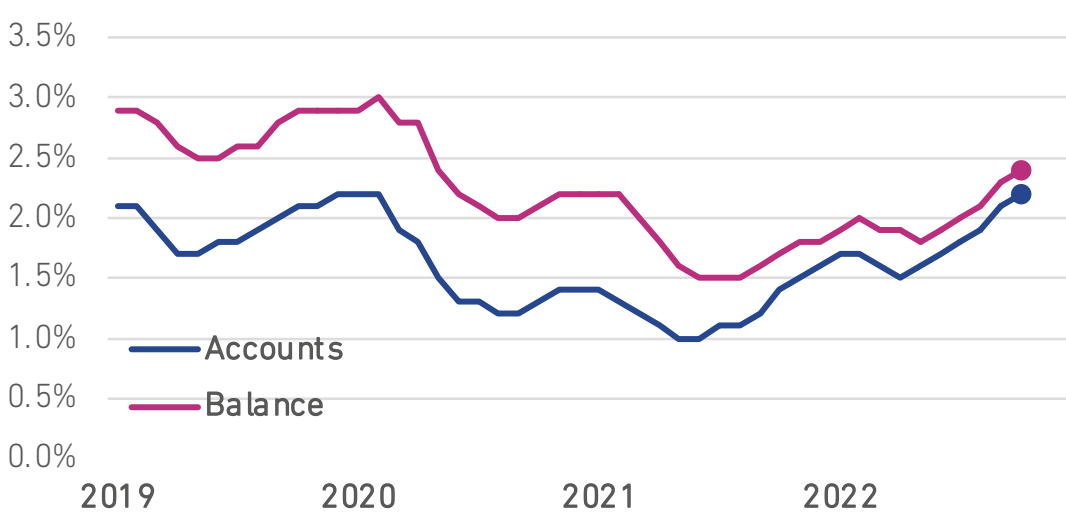
Mortgage (Purchase and Refi)



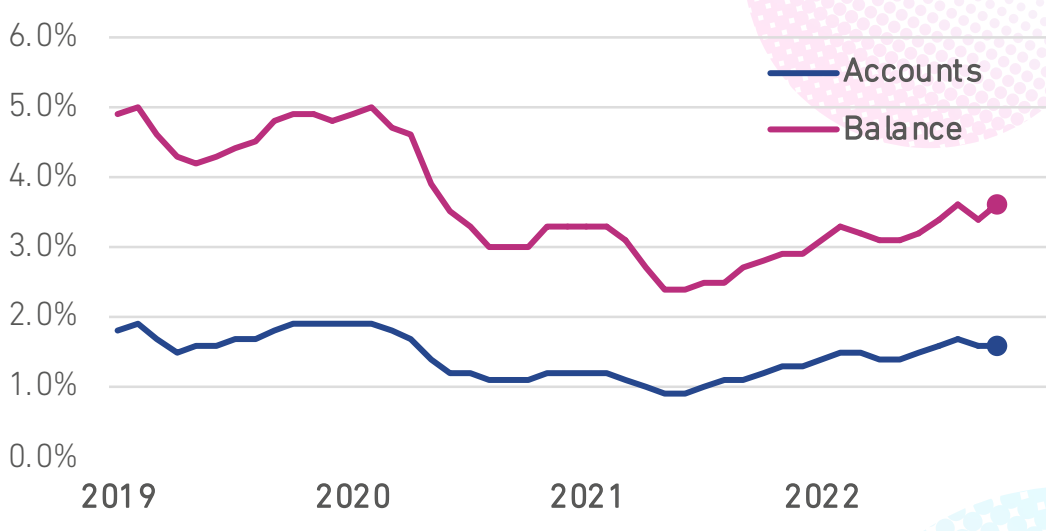
Source: Experian Ascend™ market insights dashboard

Delinquency roundup (30+ days past due)

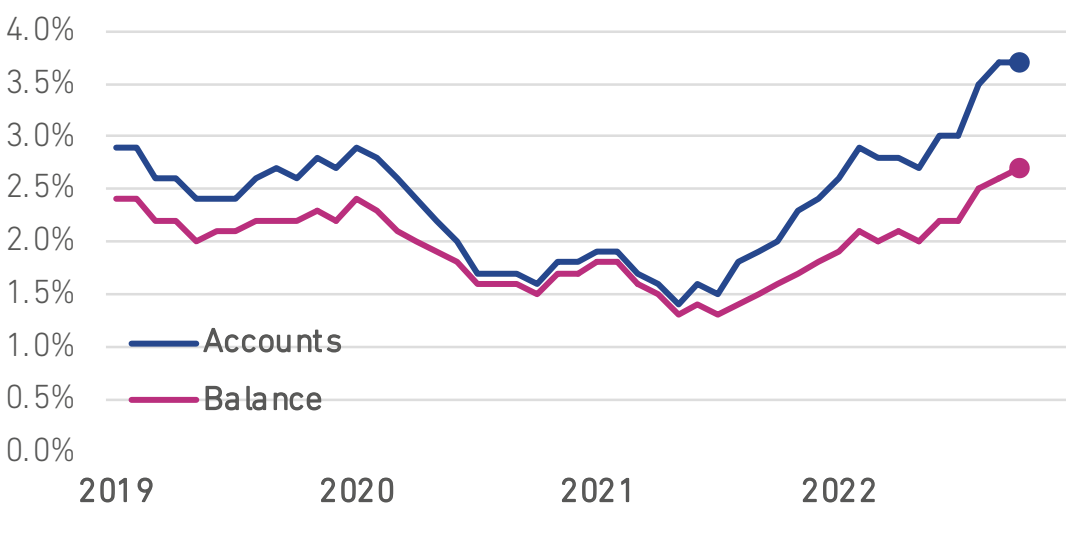
Bankcard



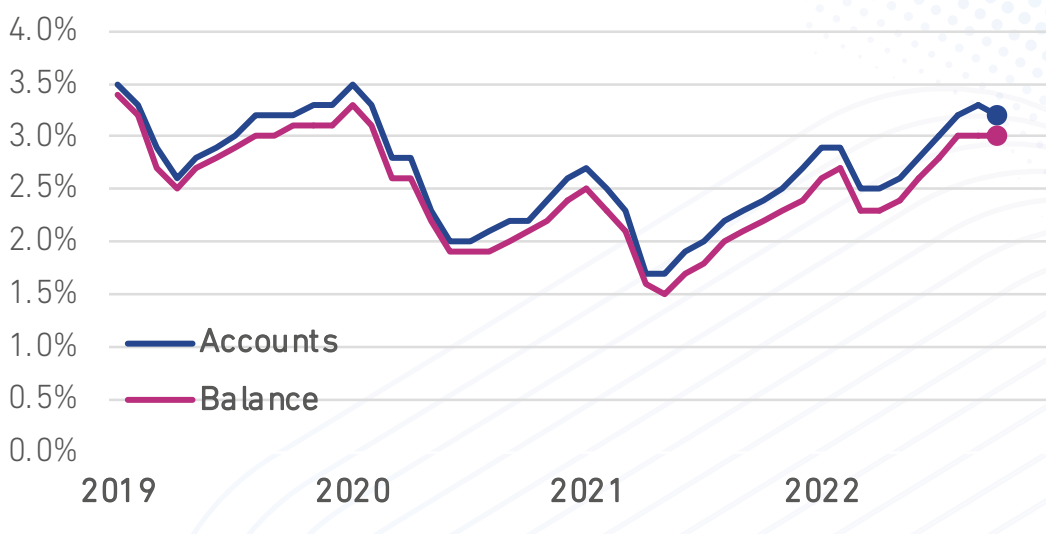
Retail Card



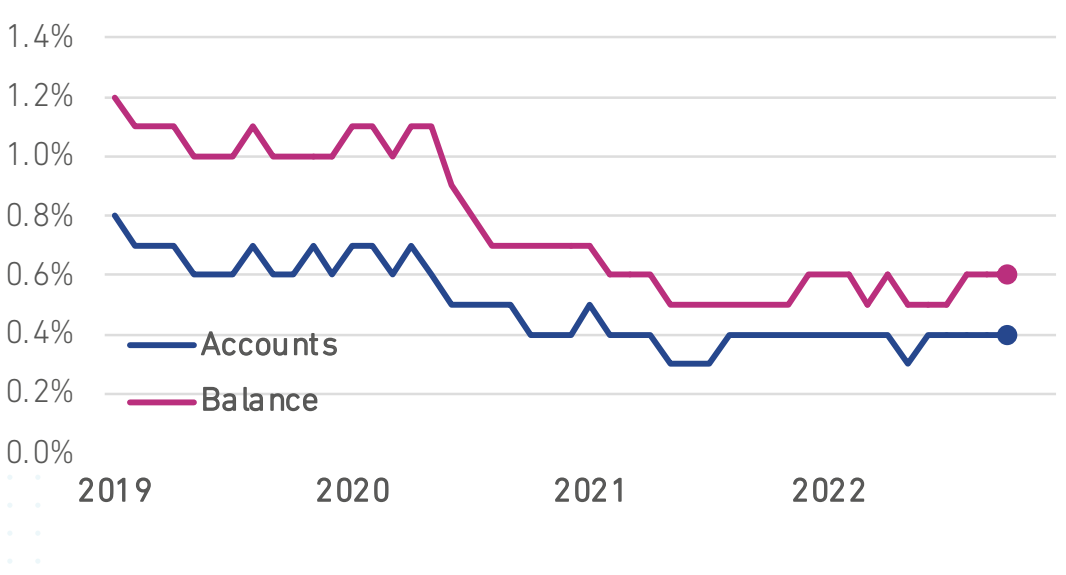
Unsecured Personal Loan



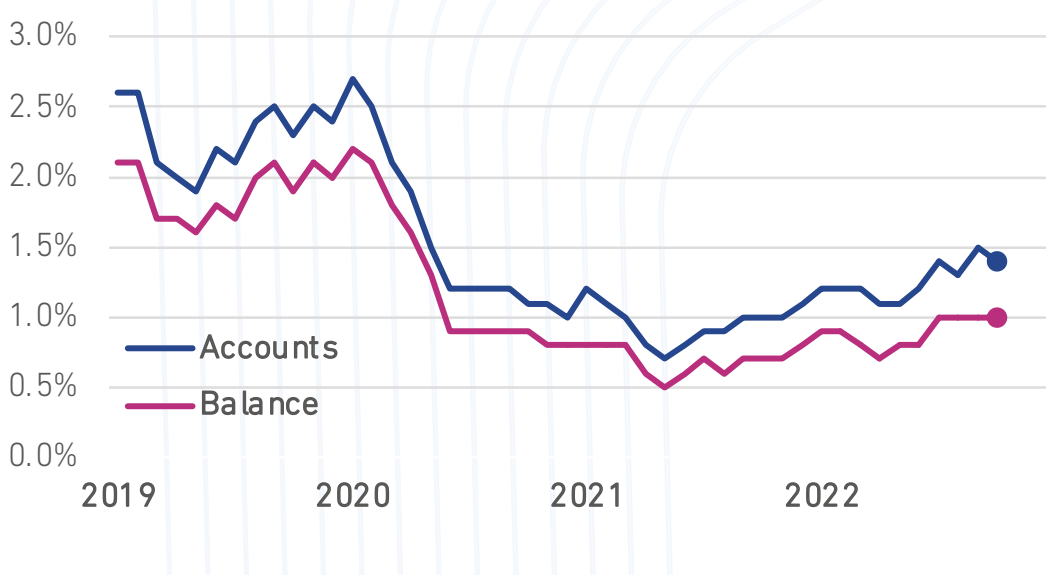
Auto



HELOC



Mortgage



Source: Experian Ascend™ market insights dashboard



