

PERCEPTIONS VS. REALITY







Perceptions



Reality



Local

Image Source: (Oriol Domingo/shutterstock.com)







Perceptions

WINTER 2023



Reality



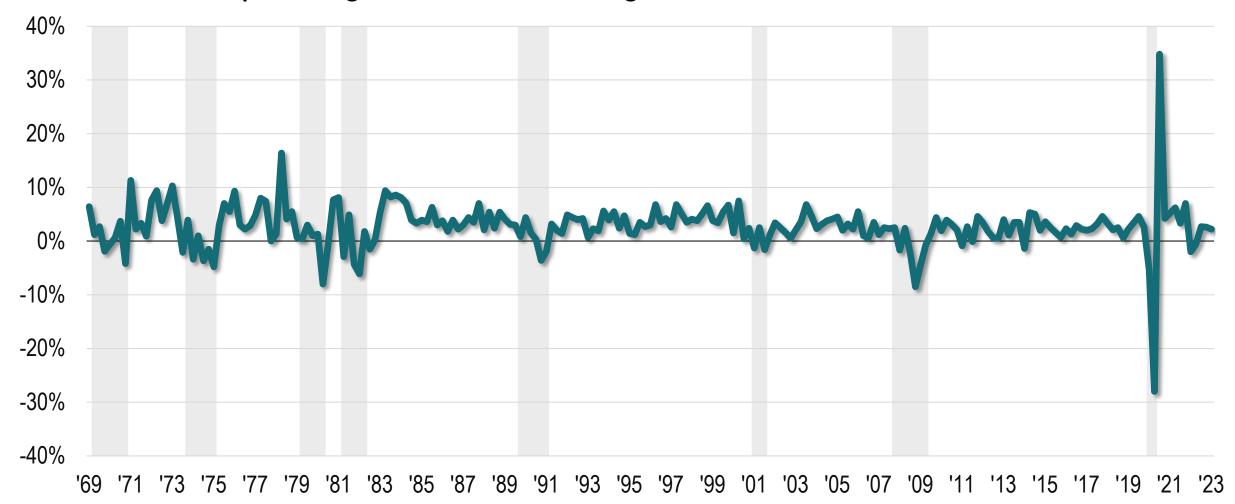
Local

Image Source: (Oriol Domingo/shutterstock.com)



Real GDP Growth

United States | Change From Preceding Period

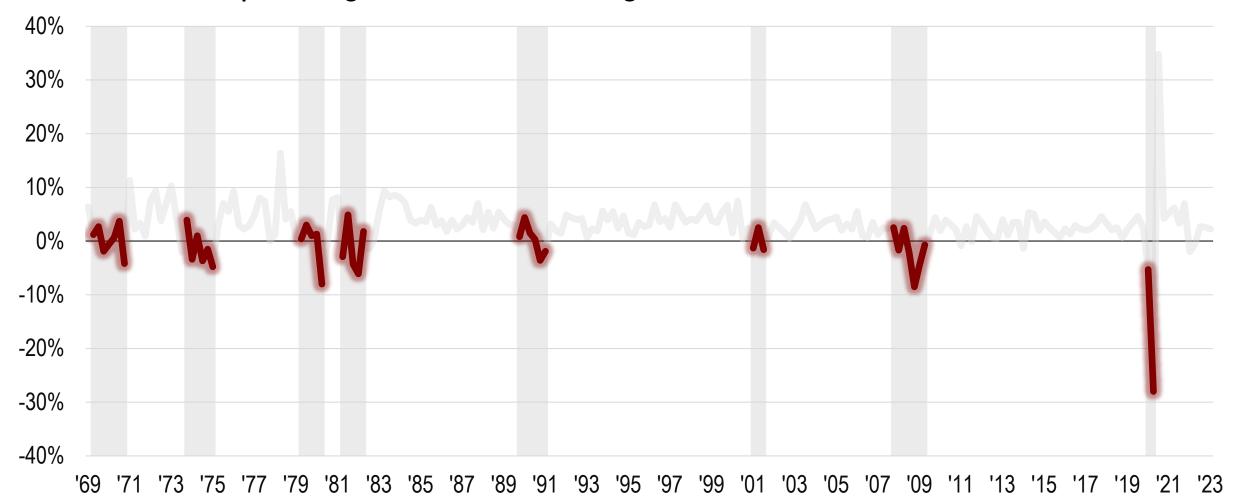


Source: U.S. Bureau of Economic Analysis



Real GDP Growth

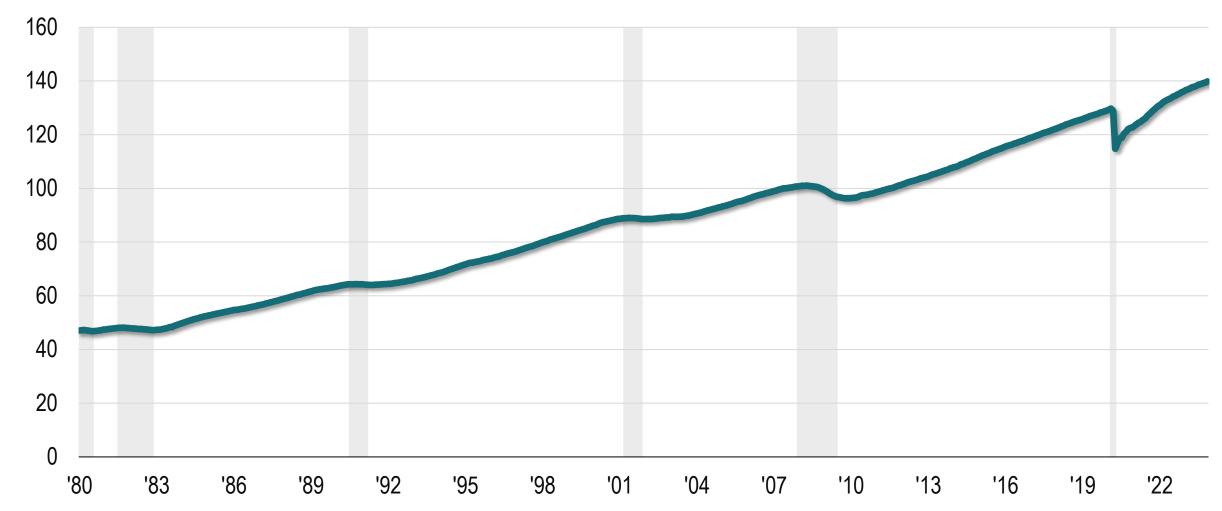
United States | Change From Preceding Period

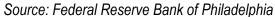


Source: U.S. Bureau of Economic Analysis



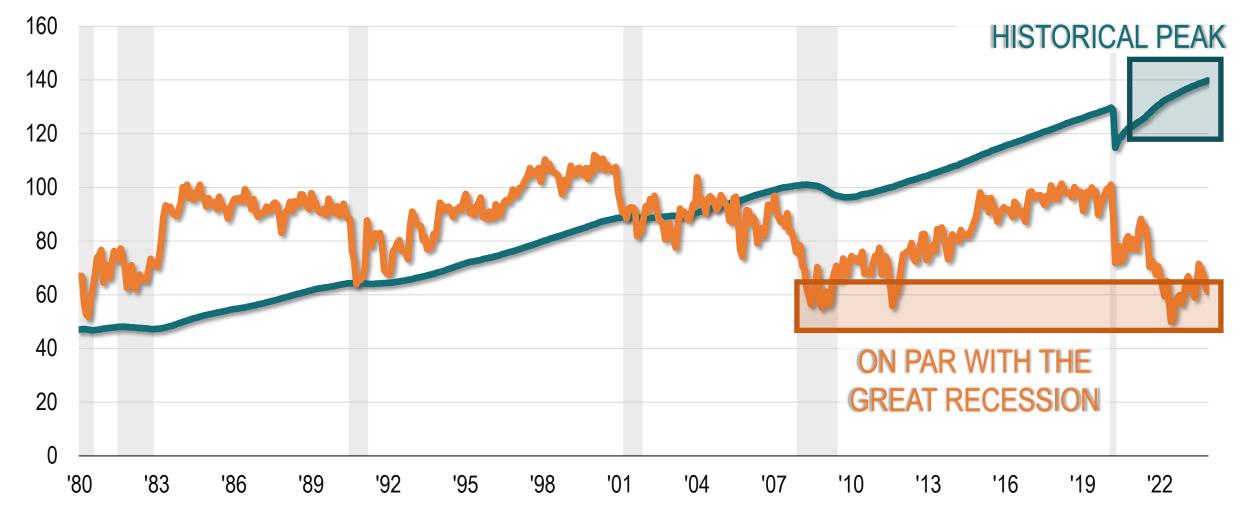
Coincident Economic Activity Index







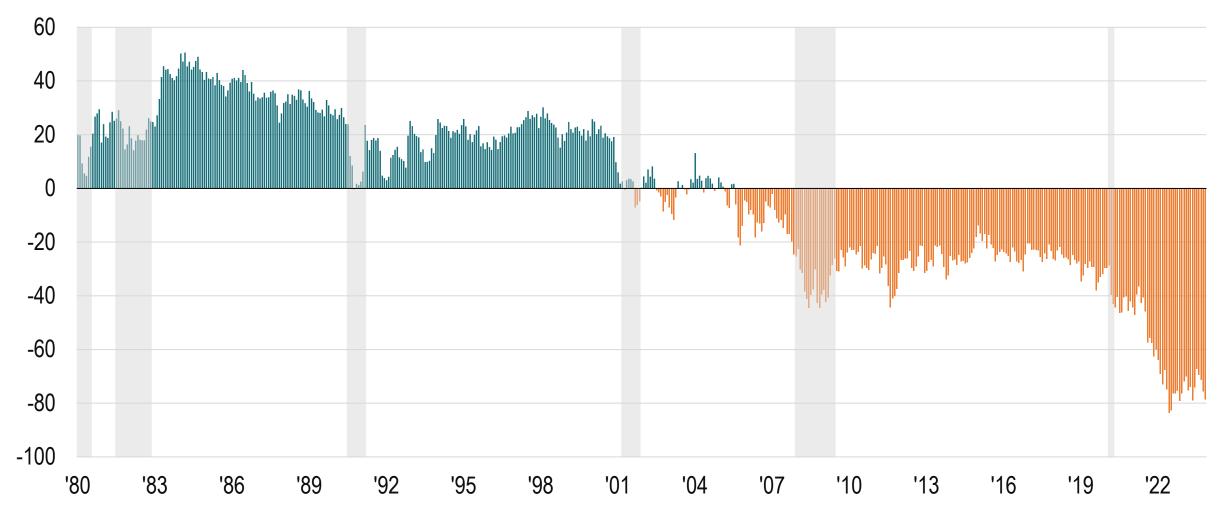
Coincident Economic Activity Index vs. Consumer Sentiment



Source: Federal Reserve Bank of Philadelphia; University of Michigan



Coincident Economic Activity Index vs. Consumer Sentiment Variance



Source: Federal Reserve Bank of Philadelphia; University of Michigan



Misery Index

United States



Source: U.S. Bureau of Labor Statistics



Happiness Index

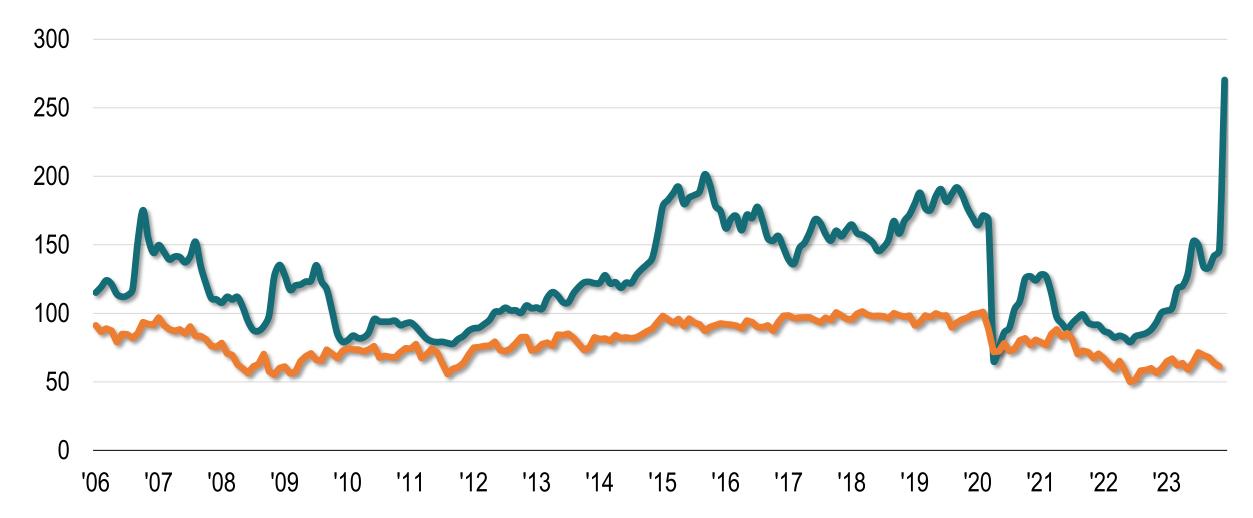
United States



Source: U.S. Bureau of Labor Statistics



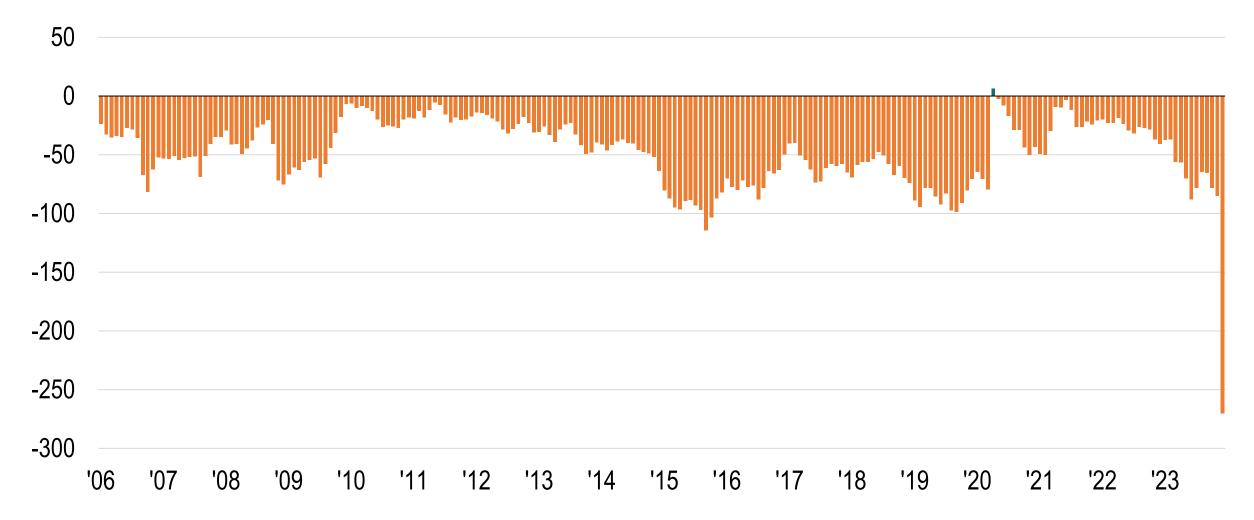
Happiness Index vs. Consumer Sentiment



Source: U.S. Bureau of Labor Statistics; University of Michigan



Happiness Index vs. Consumer Sentiment Variance



Source: U.S. Bureau of Labor Statistics; University of Michigan



WHY ARE WE SEEING THIS HAPPEN?



Image Source: (Summit Art Creations/shutterstock.com)







nature human behaviour



Registered Report

Negativity drives online news consumption

Received: 7 December 2020

Accepted: 6 January 2023

Published online: 16 March 2023

Check for updates

Claire E. Robertson @ 17, Nicolas Pröllochs @ 27, Kaoru Schwarzenegger 3, Philip Pärnamets © 4, Jay J. Van Bavel © 1.5 ... & Stefan Feuerriegel © 3.6 ...

Online media is important for society in informing and shaping opinions hence raising the question of what drives online news consumption. Here we analyse the causal effect of negative and emotional words on news consumption using a large online dataset of viral news stories. Specifically, we conducted our analyses using a series of randomized controlled trials (N = 22,743). Our dataset comprises -105,000 different variations of news stories from Upworthy.com that generated ~5.7 million clicks across more than 370 million overall impressions. Although positive words were slightly more prevalent than negative words, we found that negative words in news headlines increased consumption rates (and positive words decreased consumption rates). For a headline of average length, each additional negative word increased the click-through rate by 2.3%. Our results contribute to a better understanding of why users engage with online media.

The newsroom phrase 'If it bleeds, it leads' was coined to reflect the tragedy sell more newspapers than stories about good news1. However a large portion of news readership now occurs online—the motivation of their news online, and reliance on the Internet as a news source is increasing². Even so, most users spend less than 5 minutes per month on to compete for the extremely limited resource of reader attention4.

widespread source of information and, subsequently, opinion forma- or painful experiences 31-33. tion⁵⁻⁹. As such, online media has a profound impact on society across domains such as marketing 10,11 finance 12-14 health 15 and politics 16-19. news sources to publish 'click-bait' news stories, often categorized by outrageous, upsetting and negative headlines 20-22. Here we analyse the effect of negative words on news consumption using a massive

The tendency for individuals to attend to negative news reflects intuition among journalists that stories about crime, bloodshed and something foundational about human cognition—that humans preferentially attend to negative stimuli across many domains^{24,2} Attentional biases towards negative stimuli begin in infancy26 and to sell papers transformed into a motivation to keep readers clicking persist into adulthood as a fast and automatic response. Furtherweigh negative information more heavily than positive information. when learning about themselves, learning about others and making all of the top 25 news sites put together³. Hence, online media is forced decisions²⁸⁻³⁰. This may be due to negative information automatically activating threat responses-knowing about possible negative outcomes allows for planning and avoidance of potentially harmful

behaviour. In particular, negative language in online content has been negativity embedded in online content explains the speed and virality of online diffusion dynamics (for example, response time, branch ing of online cascades)7,34,35,37,39-41. Further, online stories from social media perceived as negative garner more reactions (for example was one of the most successful pioneers of click-bait in the history of cal activations 44, and negative news is more likely to be remembered

Department of Psychology, New York University, New York, NY, USA. Department of Business and Economics, University of Giessen, Giessen, Germany. 3Department of Management, Technology and Economics, ETH Zurich, Zurich, Switzerland. 4Division of Psychology, Department of Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden. 5Center for Neural Science, New York University, New York, NY, USA. 6LMU Munich School of Management, LMU Munich, Munich, Germany, These authors contributed equally: Claire F. Robertson, Nicolas Pröllochs, Fie-mail: javyanbayel@nyu.edu:

Nature Human Behaviour | Volume 7 | May 2023 | 812-822

812

FOR A HEADLINE OF **AVERAGE LENGTH, EACH ADDITIONAL NEGATIVE WORD INCREASED THE CLICK-THROUGH RATE BY**

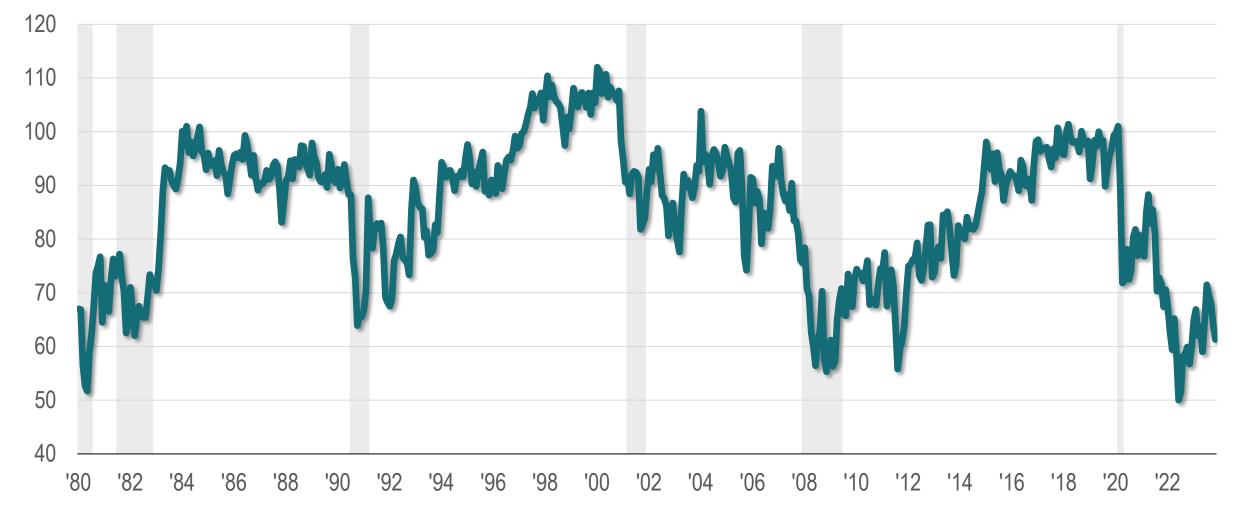
2.3%





Consumer Sentiment

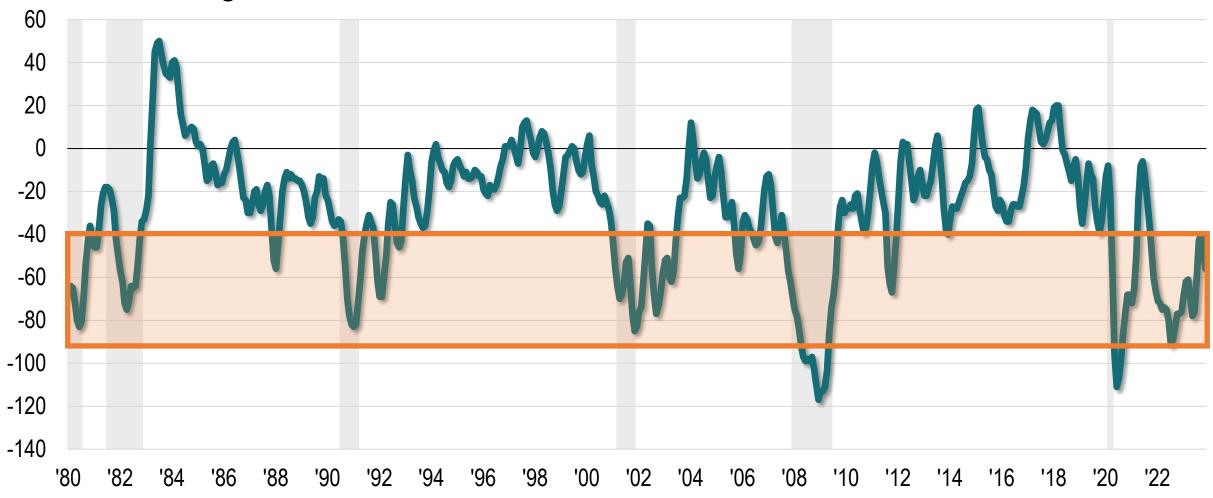
United States





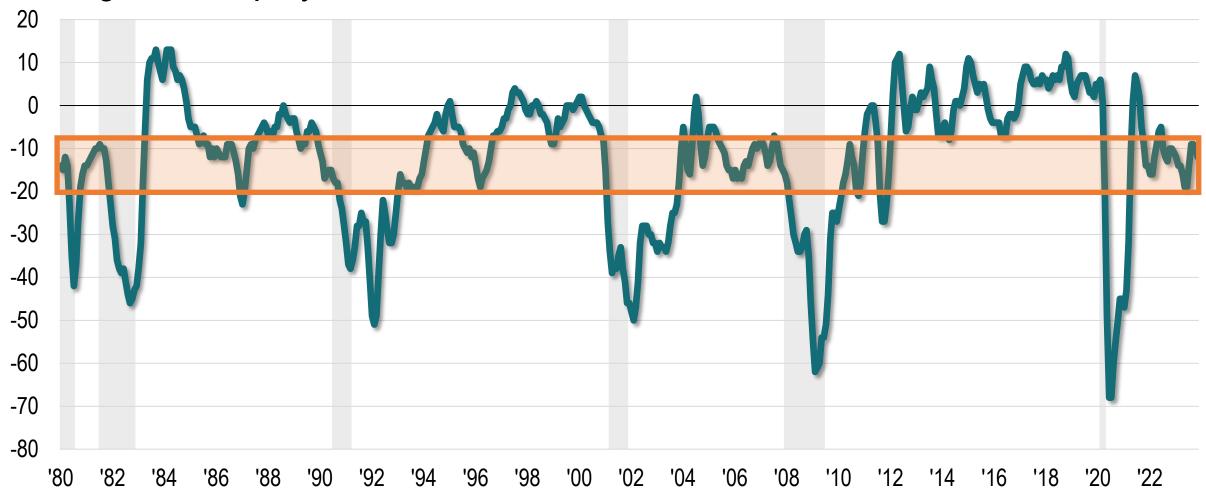


Recent Changes in Business Conditions



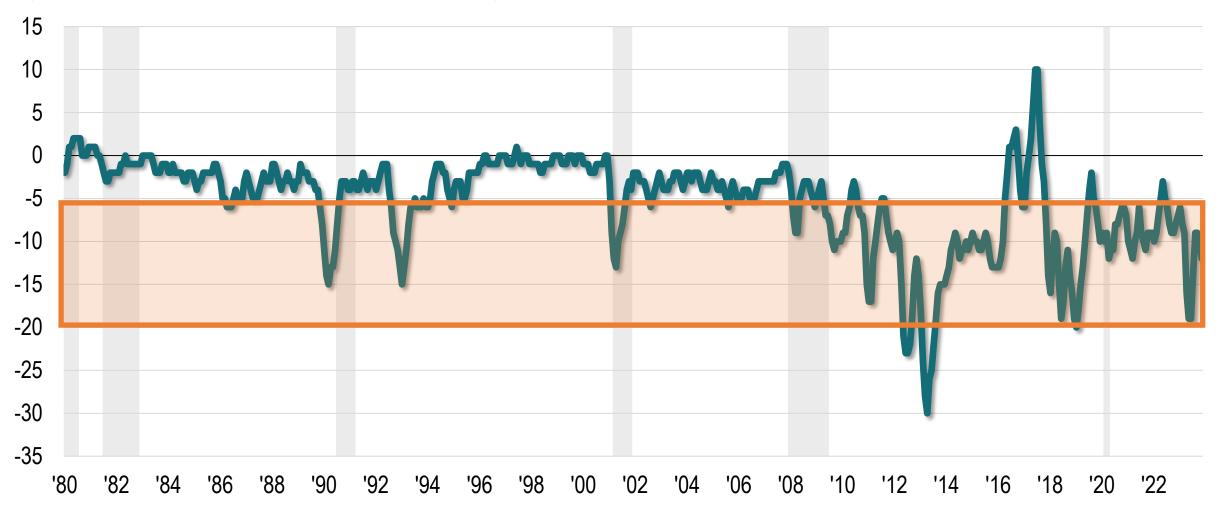


Changes in Employment



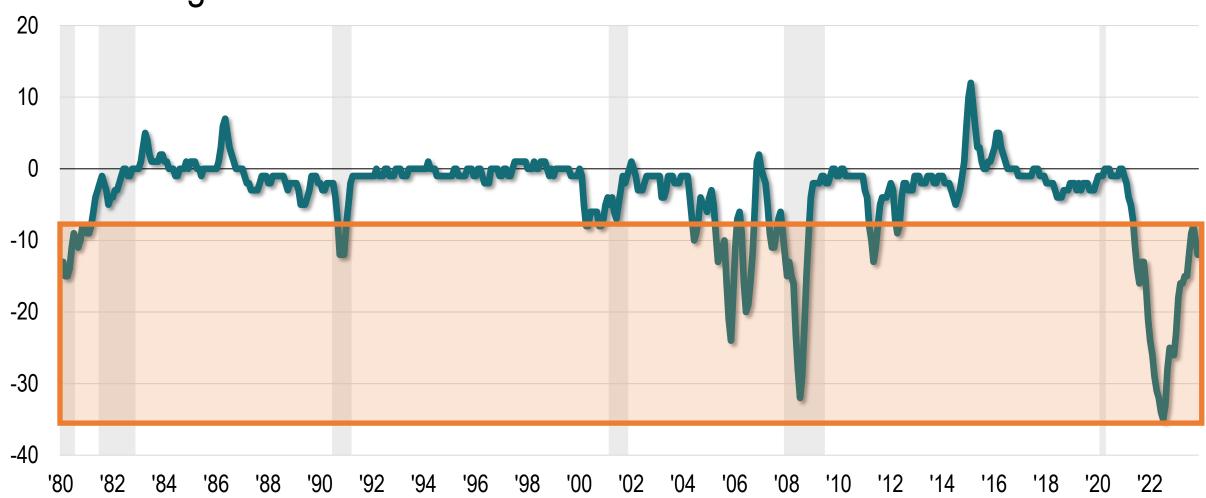


Government Economic Policies





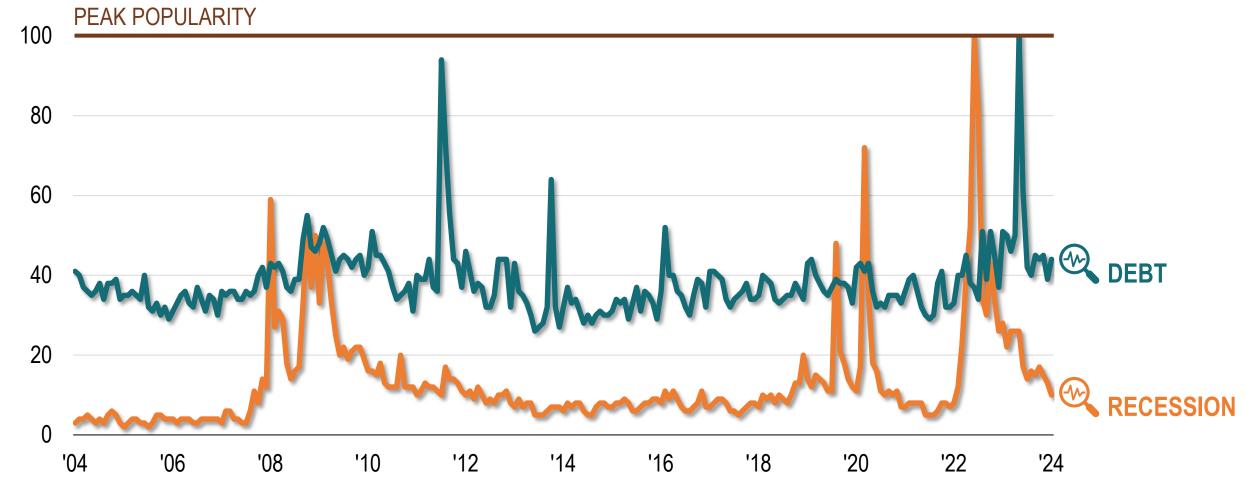
Price Changes





Internet Searches

United States | Last Ten Years





Source: Google Trends

Is It Bad for You to Read the News Constantly?

More than half of Americans say the news causes them stress, and many report feeling anxiety, fatigue or sleep loss as a result. Yet <u>one in 10</u> adults checks the news every hour, and fully 20% of Americans report "constantly" monitoring their social media feeds.

Image Source: (Billion Photos/shutterstock.com)



















Perceptions



Reality



Local

Image Source: (Oriol Domingo/shutterstock.com)



So, How is THE ECONOMY ACTUALLY PERFORMING?



Image Source: (Summit Art Creations/shutterstock.com)



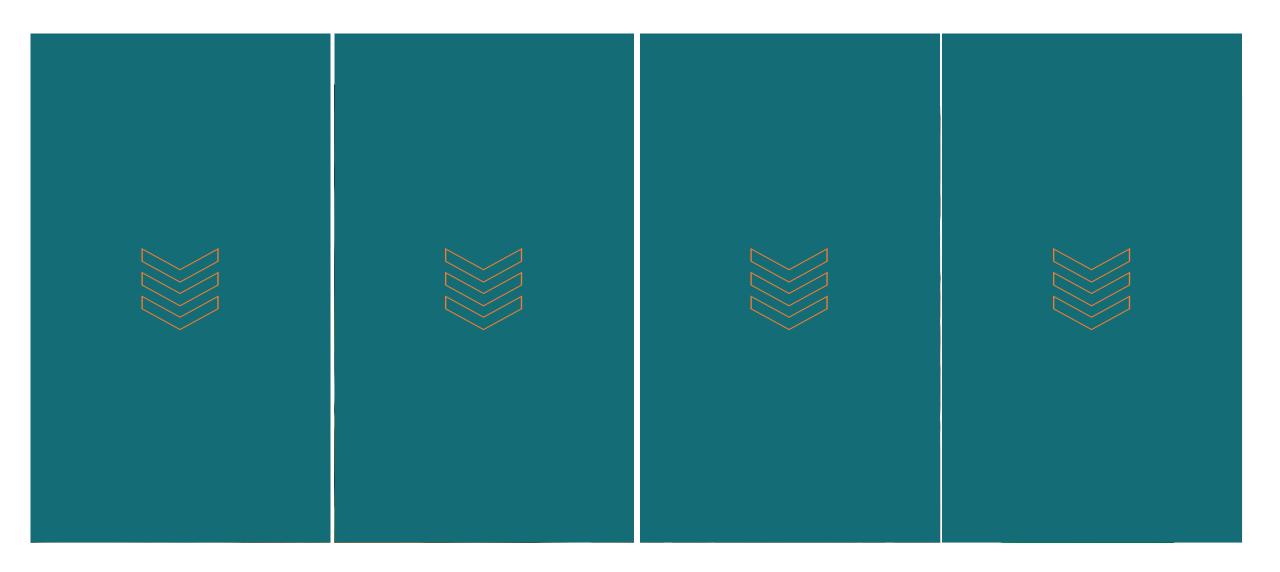
Economic Performance Indicators

Indicator	Current Period	Current Value	Pre-Pandemic Value	Percent Change
Gross Domestic Product (Billions)	Q3 '23	\$22,506	\$20,665	8.9%
Unemployment Rate ^[1]	Nov '23	3.6%	3.7%	(0.1%)
Real Wage and Salary Growth	Nov '23	5.2%	3.7%	1.5%
Producer Price Index	Nov '23	253.8	196.7	29.0%
Retail Sales (Millions)	Nov '23	\$610,995	\$456,676	33.8%
Industrial Production ^[1]	Nov '23	102.7	102.4	0.3%
Housing Starts ^[1]	Nov '23	16,893	16,651	1.5%
Building Permits	Nov '23	1,460	1,440	1.4%
Balance of Trade	Oct '23	(\$64,255)	(\$40,611)	58.2%
Value of U.S. Dollar	Nov '23	120.5	113.2	6.5%
Corporate Profits After Tax	Q3 '23	\$3,029.1	\$2,009.6	50.7%

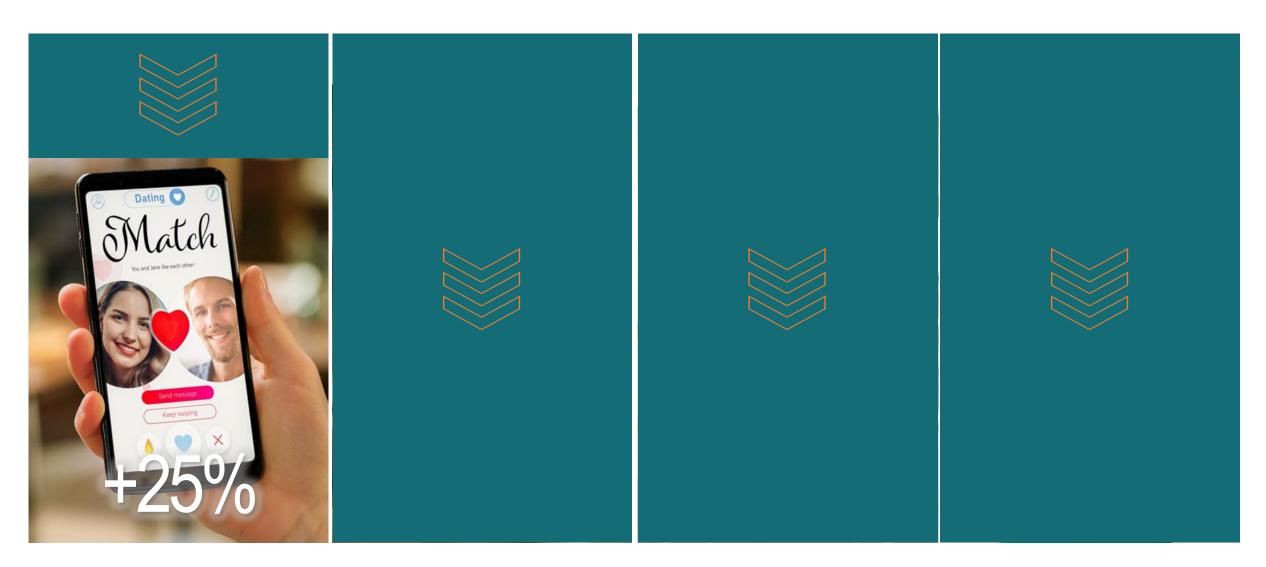
[1] Trailing 12-month value



Unconventional Indicators



First Date Index



Note: All images are sourced to shutterstock.com.



Starbuck Index



Note: All images are sourced to shutterstock.com.



WINTER 2023

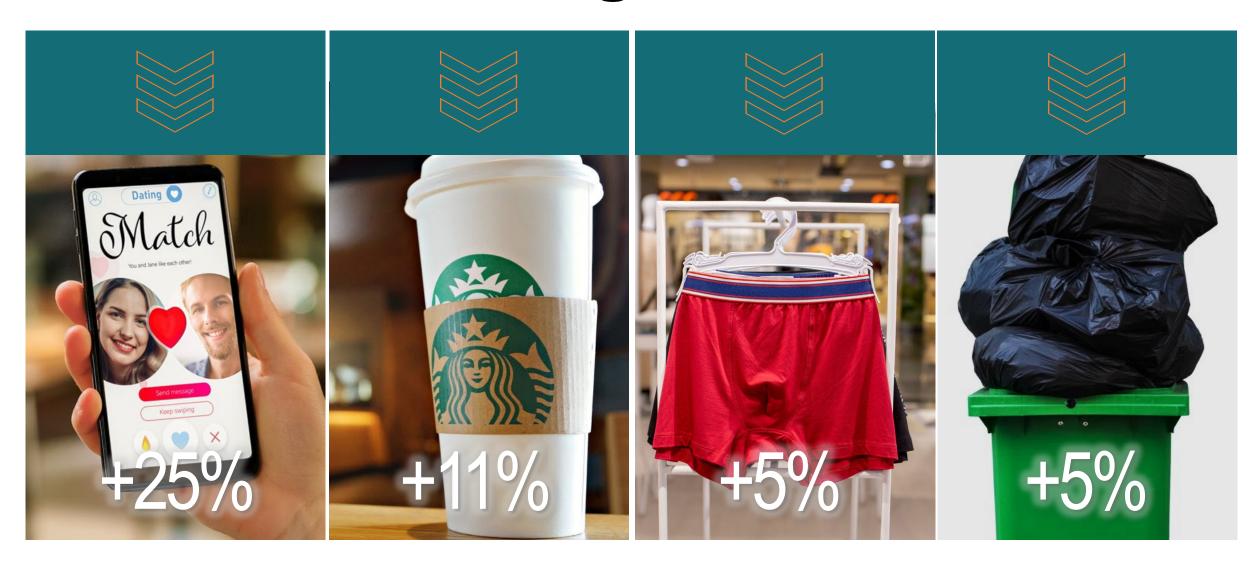
Men's Underwear Index



Note: All images are sourced to shutterstock.com.



Garbage Index



Note: All images are sourced to shutterstock.com.



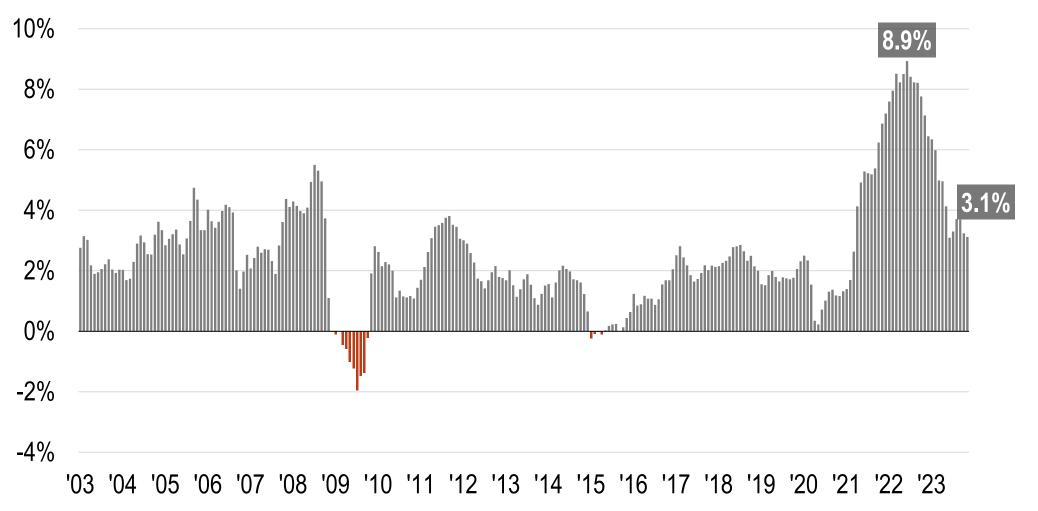
WINTER 2023

ARE CONSUMERS EXPERIENCING SOME KIND OF MASS DELUSION?



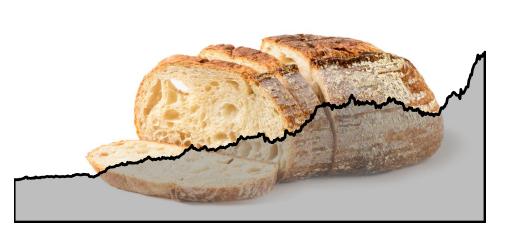
Consumer Price Index

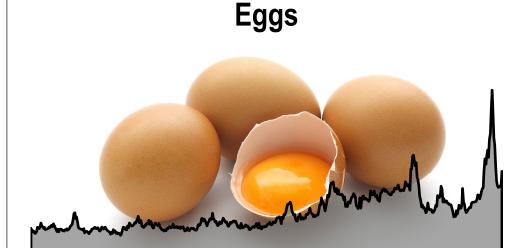
United States | Year-Over-Year Growth



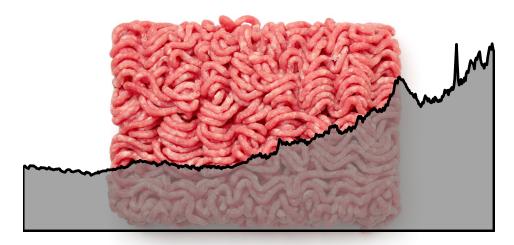


Bread





Ground Beef



Electricity

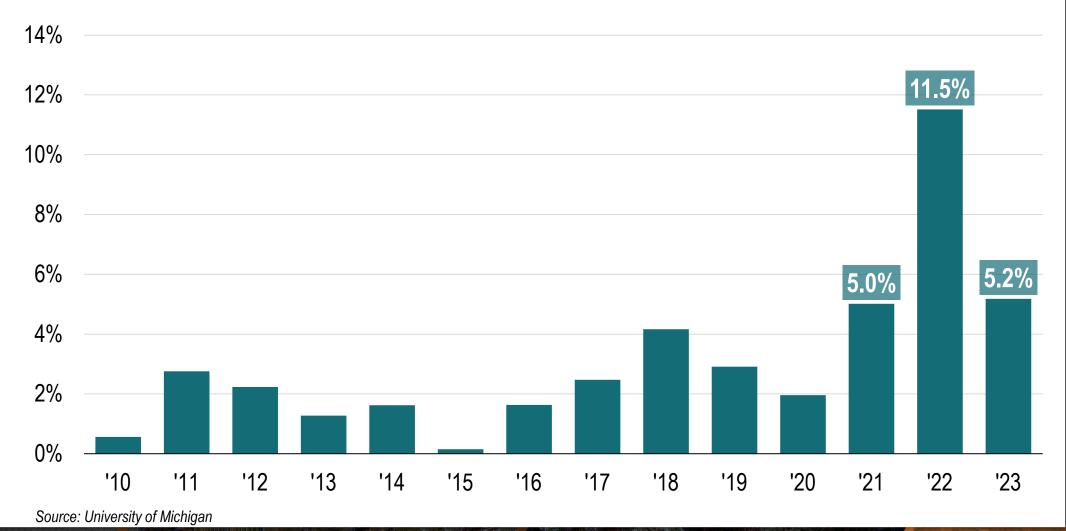


Source: U.S. Bureau of Labor Statistics. Note: All images are sourced to shutterstock.com.



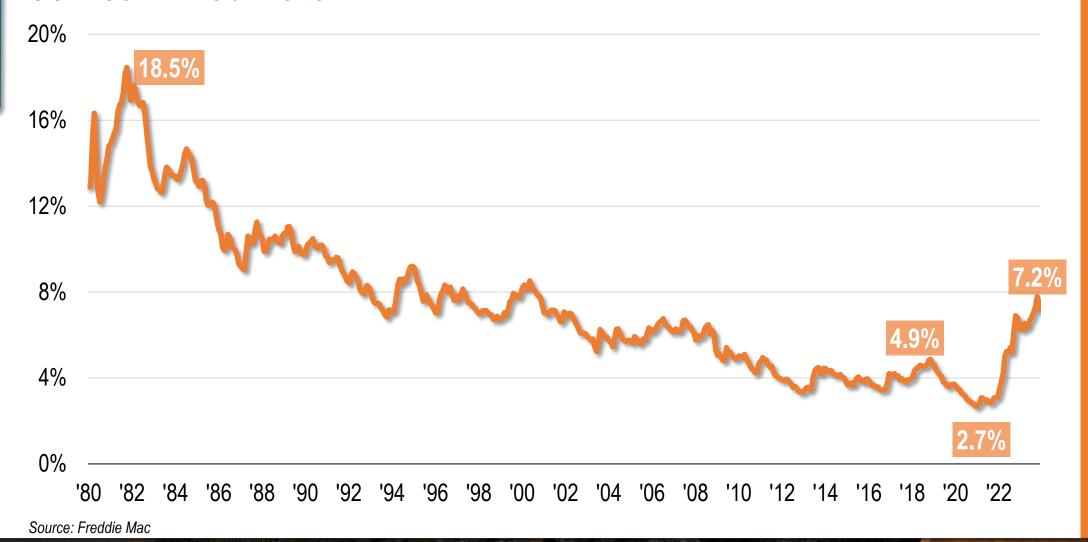
Consumer Price Index

Phoenix | Annual Change



Mortgage Interest Rates

30-Year Fixed Rate



Housing Opportunity Index

National Average



Source: National Association of Home Builders. Note: Image is sourced to (Lucky-photographer/shutterstock.com).



Housing Opportunity Index

Phoenix MSA

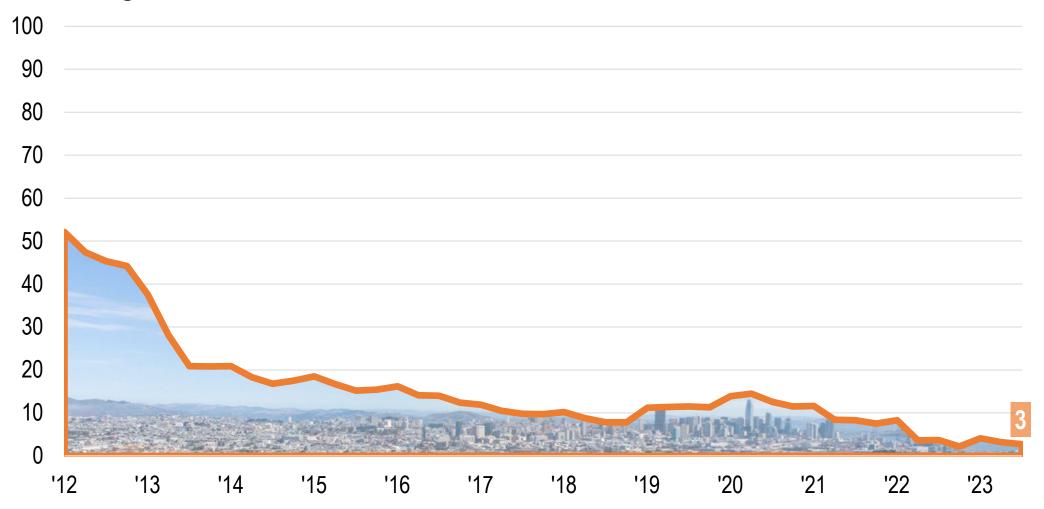


Source: National Association of Home Builders. Note: Image is sourced to (Kevin Ruck/shutterstock.com).



Housing Opportunity Index

Los Angeles



Source: National Association of Home Builders. Note: Image is sourced to shutterstock.com.





Monthly Mortgage Payment

\$500,000 House

PRE-COVID **\$2,600**

TODAY \$3,400 +\$800

Source: SalesTrag





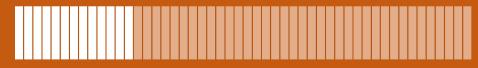
PRE-COVID



70%

OF RESIDENTS CAN AFFORD BUYING

TODAY



25%

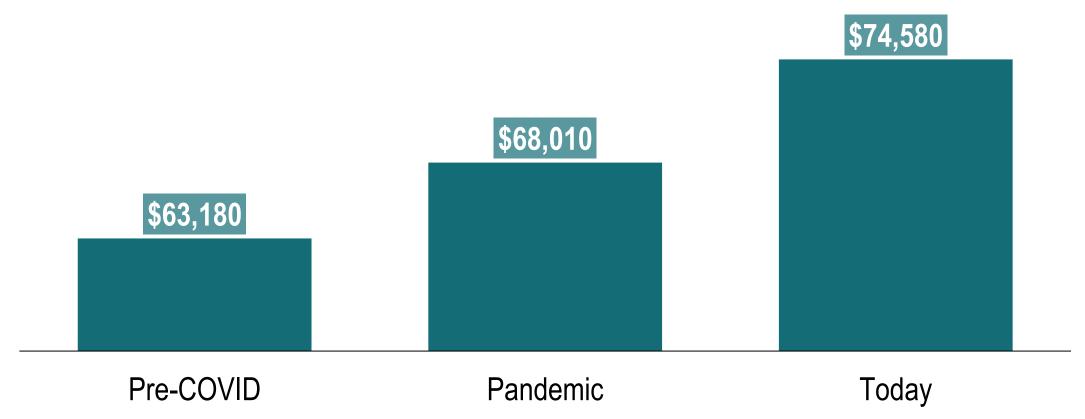
OF RESIDENTS CAN AFFORD BUYING

Source: SalesTrag



Median Household Income

United States



Source: U.S. Census Bureau; U.S. Bureau of Economic Analysis





Source: CNBC. Note: Image is sourced to (gualtiero boffi/shutterstock.com).

Wage Growth Tracker

United States

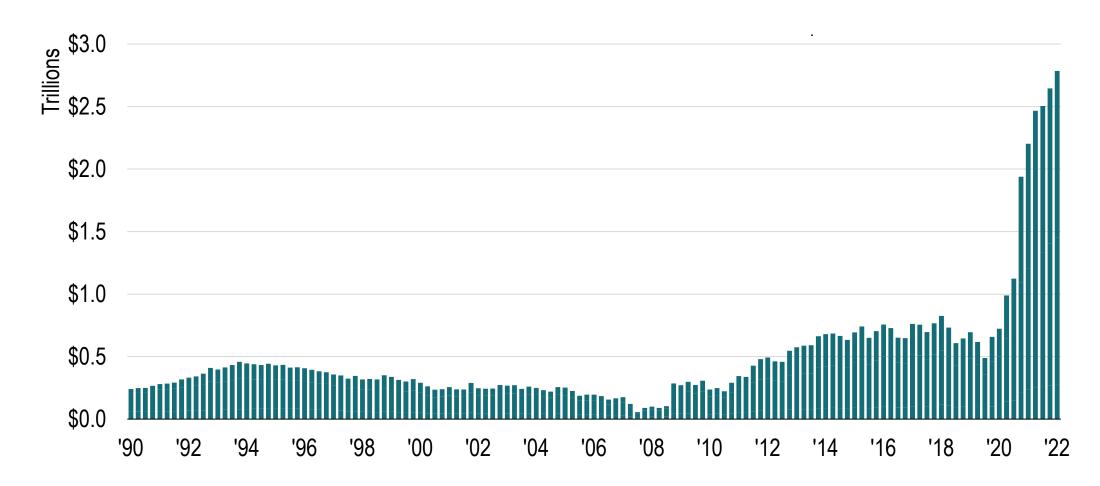


Source: Federal Reserve Bank of Atlanta. Note: Three-month moving average of median wage growth (hourly).



Checkable Deposits & Currency

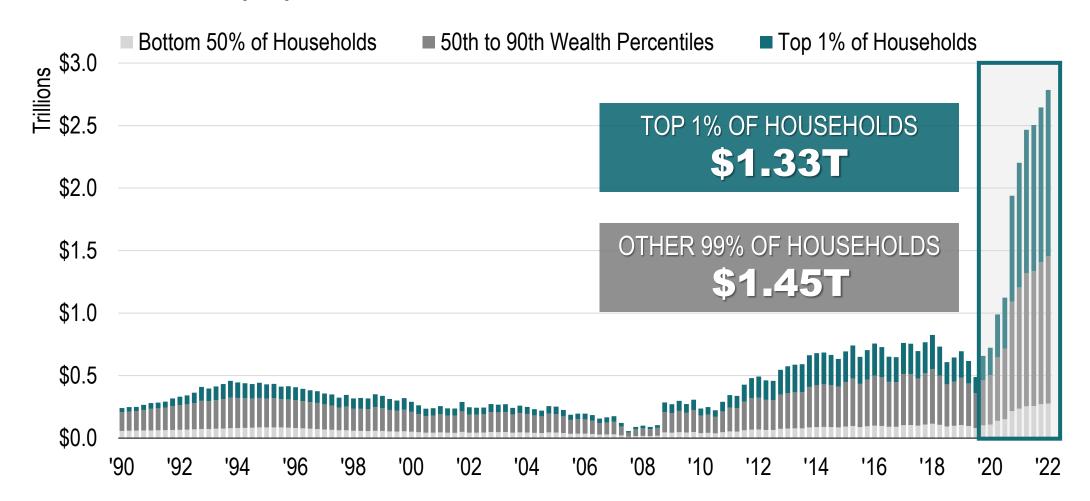
United States





Checkable Deposits & Currency

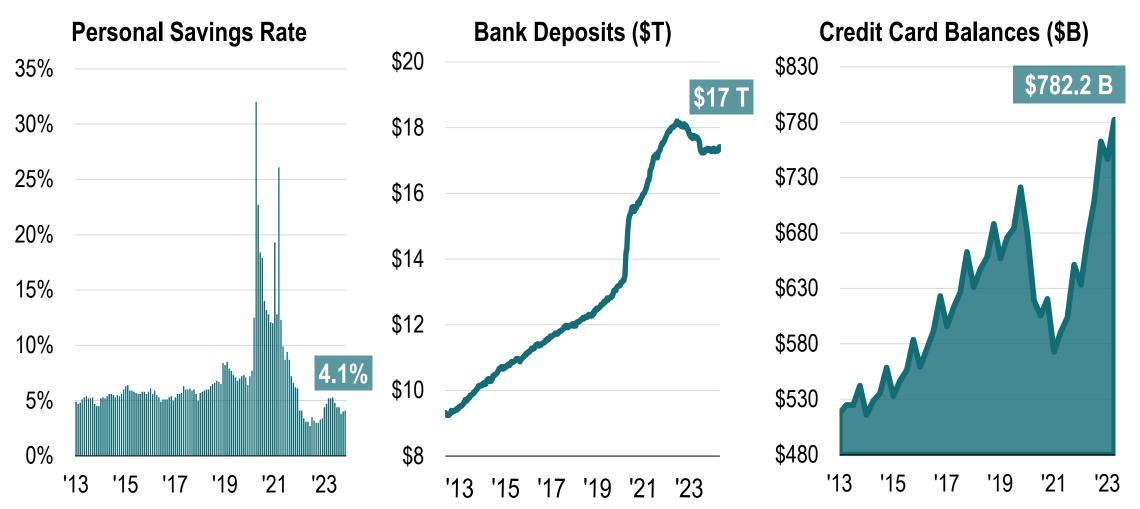
United States | By Wealth Percentiles





Consumer Banking Habits

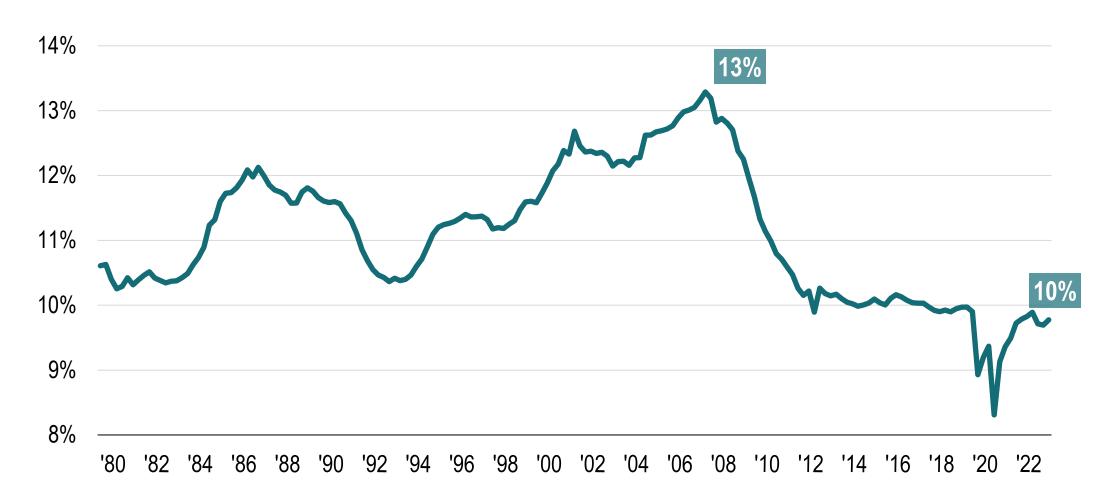
United States





Household Debt Payments

United States | Percent of Disposable Income









Perceptions



Reality



Local

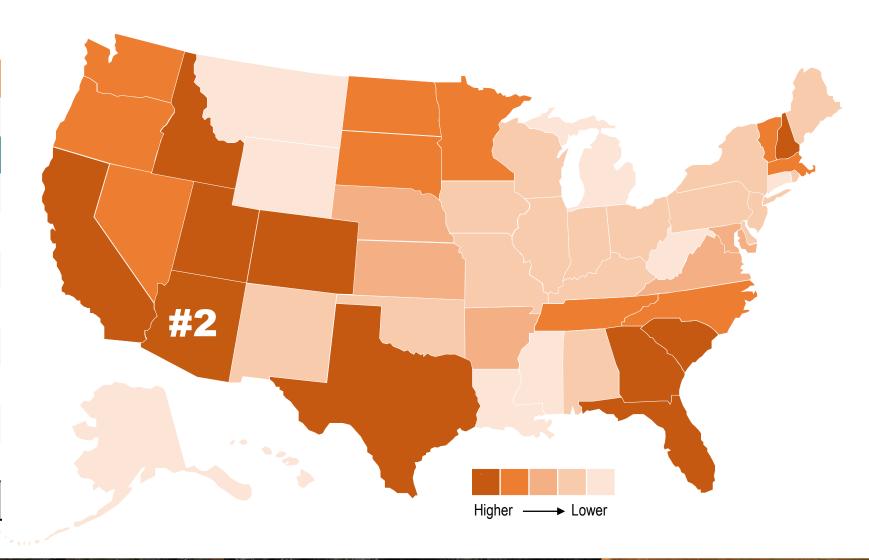
Image Source: (Oriol Domingo/shutterstock.com)



Coincident Economic Activity Index

November 2023

Rank	State	Growth
1	Utah	173.4
2	Arizona	171.6
3	Texas	165.5
4	South Carolina	165.1
5	Idaho	164.5
6	California	163.7
7	Georgia	163.6
8	Florida	162.3
9	Colorado	162.2
10	New Hampshire	161.1
	United States	139.8



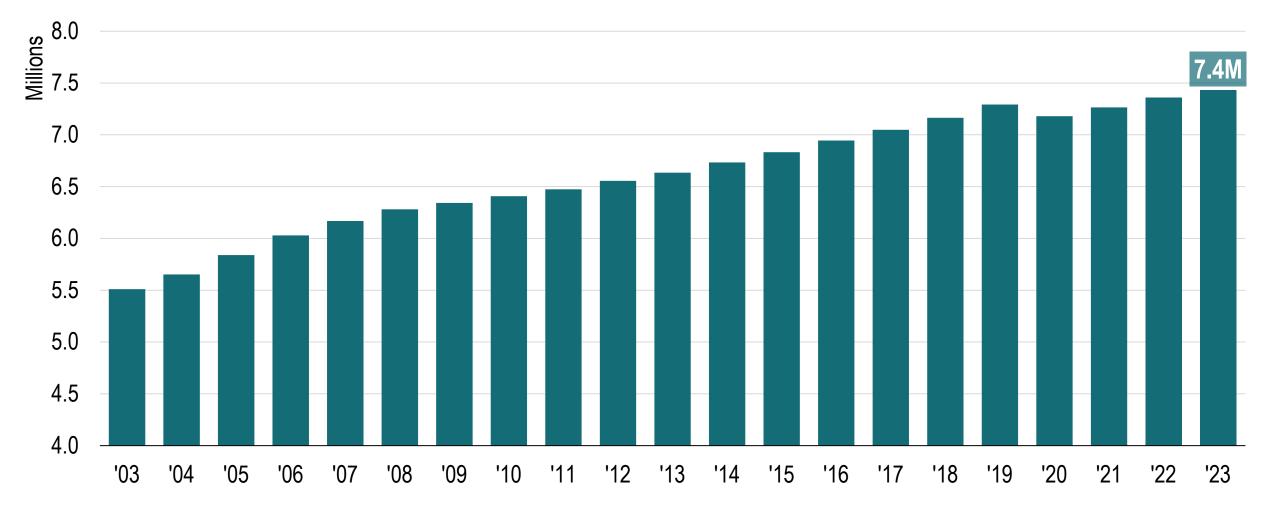
WINTER 2023

Source: Federal Reserve Bank of Philadelphia



Population

Arizona

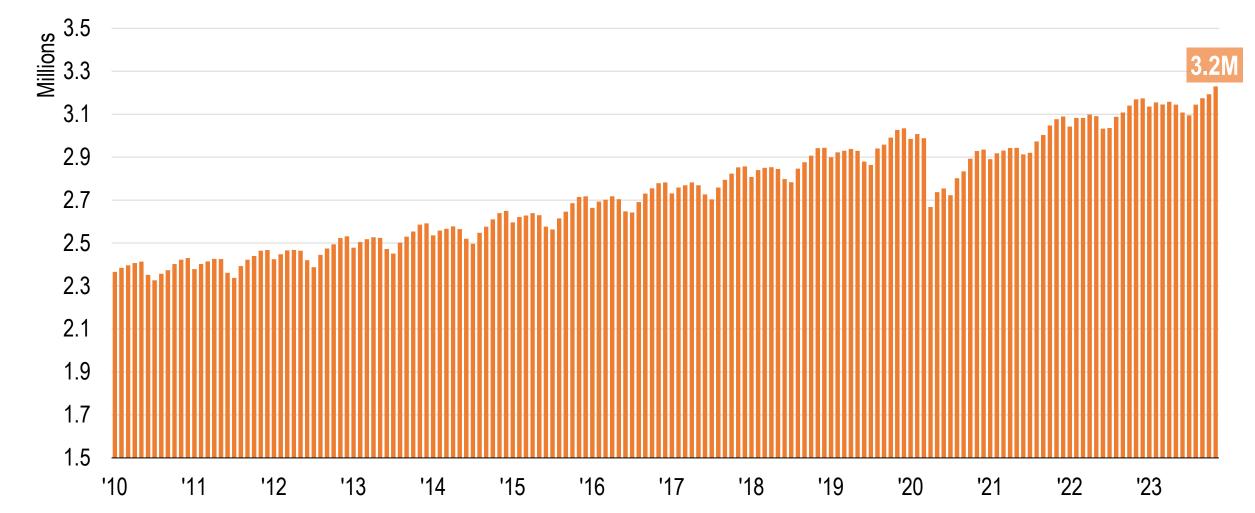


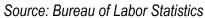
Source: U.S. Census Bureau



Employment

Statewide

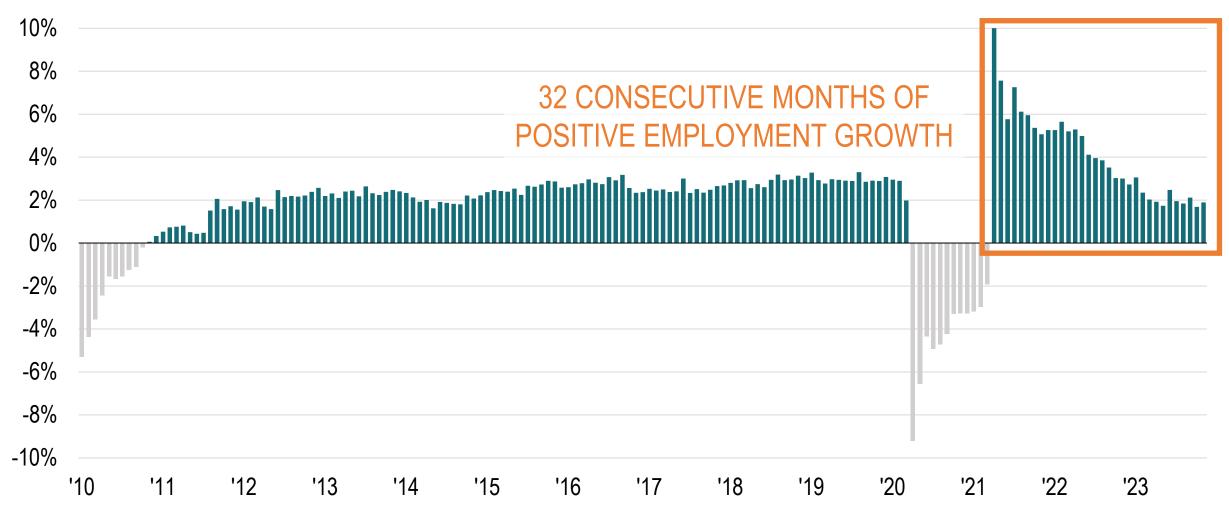






Employment Growth

Statewide

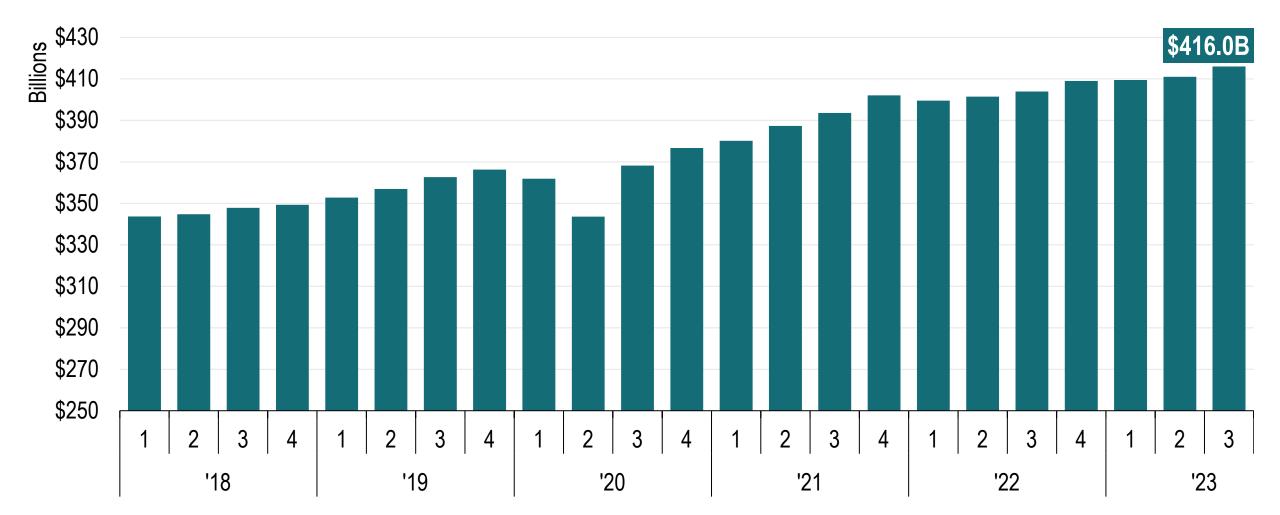


Source: Bureau of Labor Statistics



Real Gross Domestic Product

Arizona



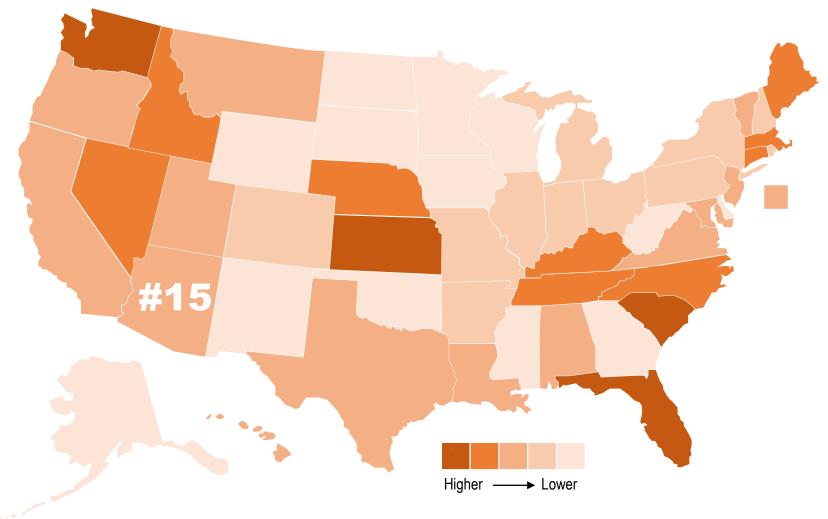
Source: U.S. Bureau of Economic Analysis



Gross Domestic Product

Year-Over-Year Growth, 2023 Q3 v 2022 Q2

Rank	State	Growth
1	Florida	9.3%
2	Kansas	8.9%
3	South Carolina	8.2%
4	Washington	8.1%
5	Nebraska	7.8%
6	Tennessee	7.8%
7	North Carolina	7.7%
8	Massachusetts	7.3%
9	Maine	7.2%
10	Kentucky	7.1%
15	Arizona	6.7%



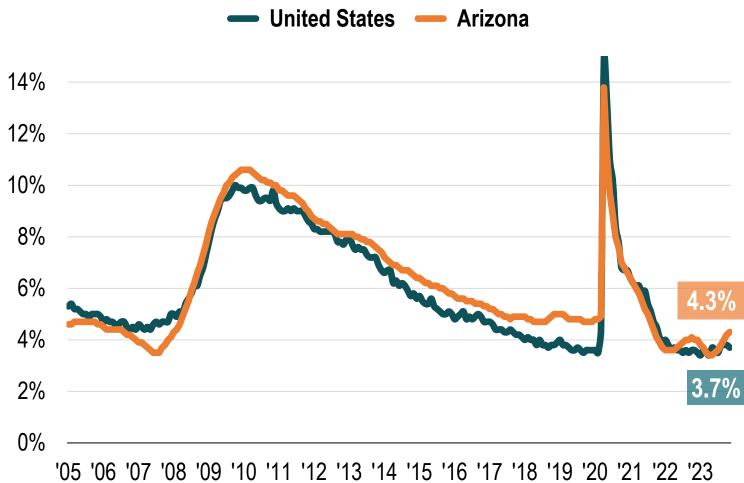
WINTER 2023

Source: Bureau of Economic Analysis



Unemployment Rate

November 2023

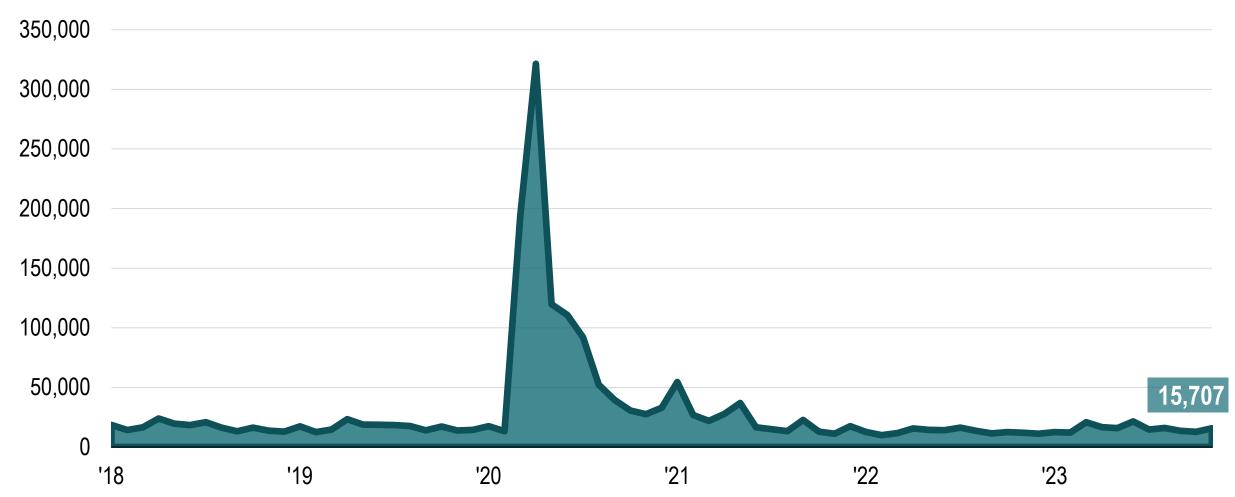




Source: Bureau of Labor Statistics

Initial Unemployment Claims

Arizona

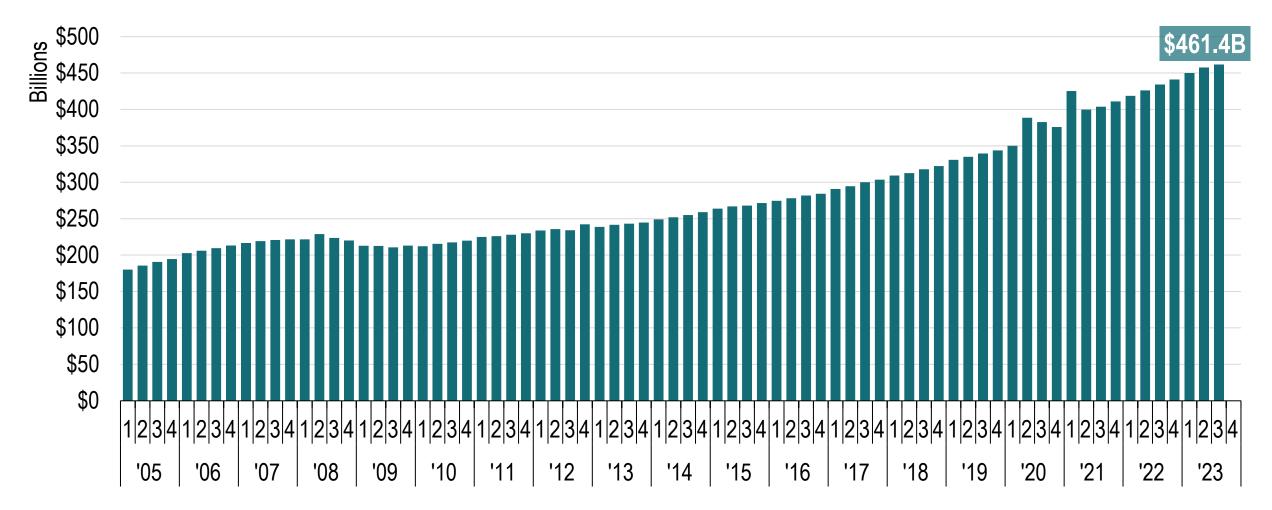


Source: Bureau of Labor Statistics



Personal Income

Arizona

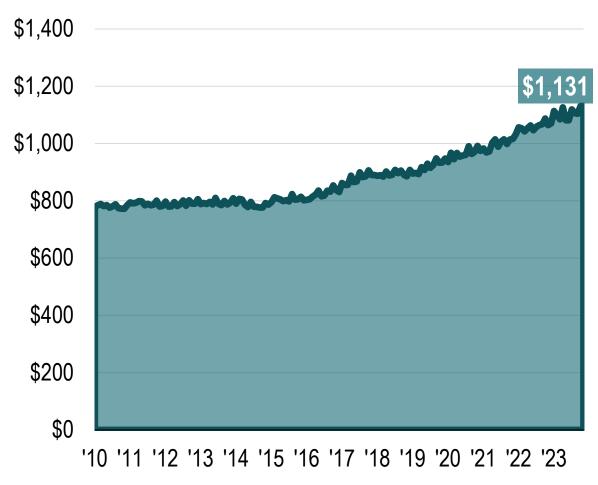


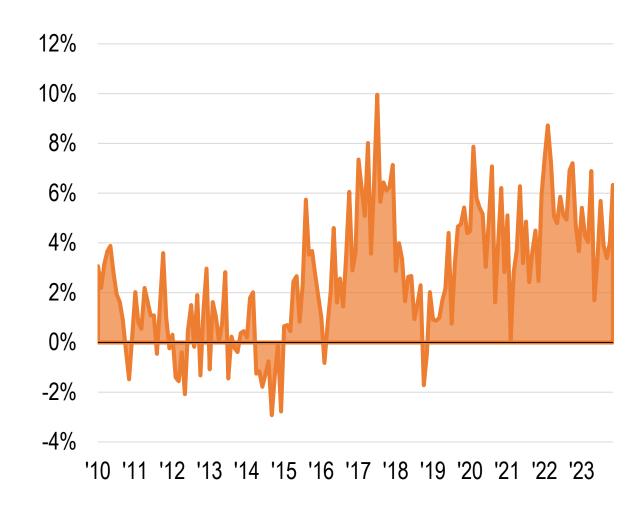
Source: U.S. Bureau of Economic Analysis



Average Weekly Wages

Arizona





WINTER 2023

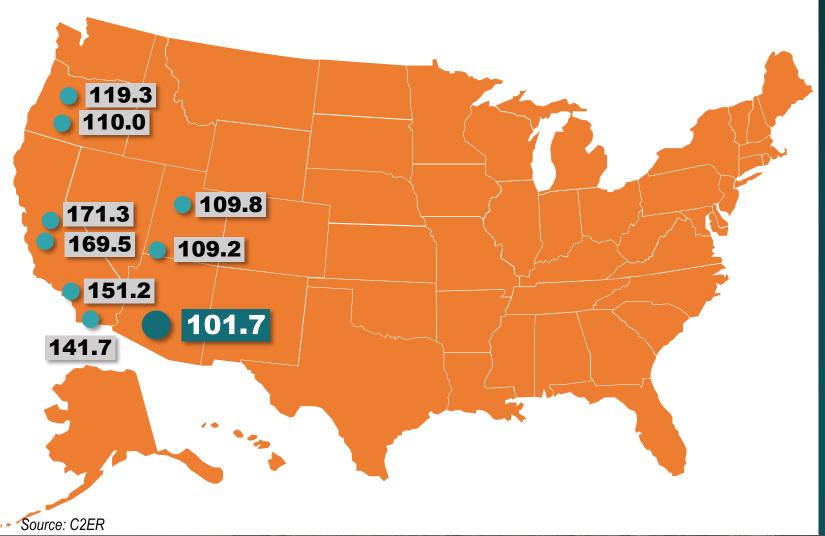
Source: Bureau of Labor Statistics



Cost of Living

2023 Q3 Index

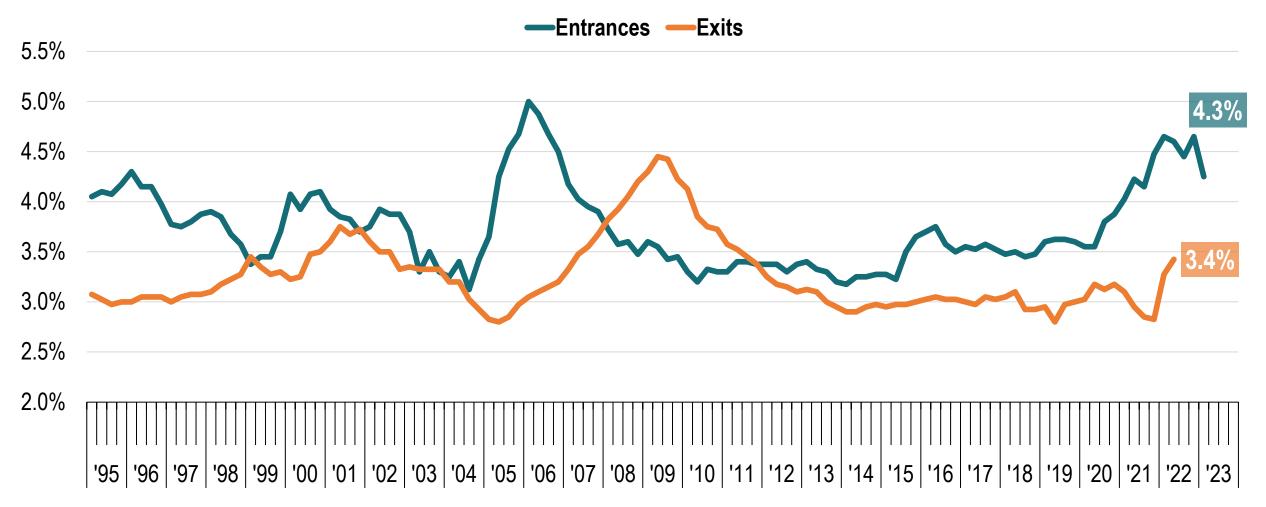
NATIONAL BANK OF ARIZONA



Phoenix is just above the national average (+1.7 percentage points) in terms of overall costs, while markets in California, Oregon and Utah range between 9.2 and 71.3 points above the average

New Business Entrances and Exits

Arizona | Total Private Trailing 12-Month Average

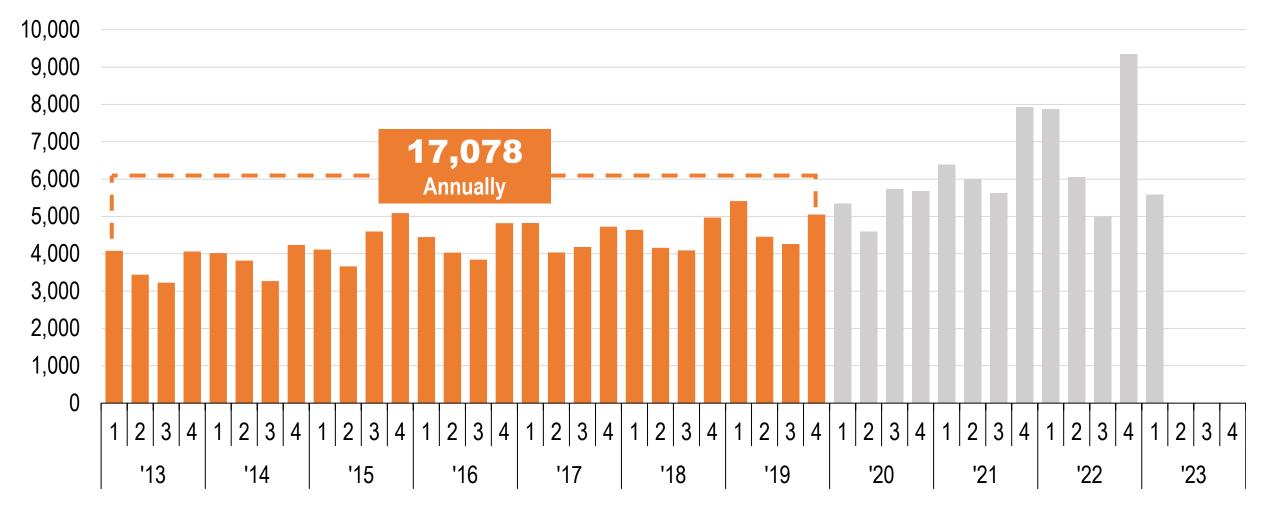


Source: Bureau of Labor Statistics



New Businesses

Total Private | Arizona

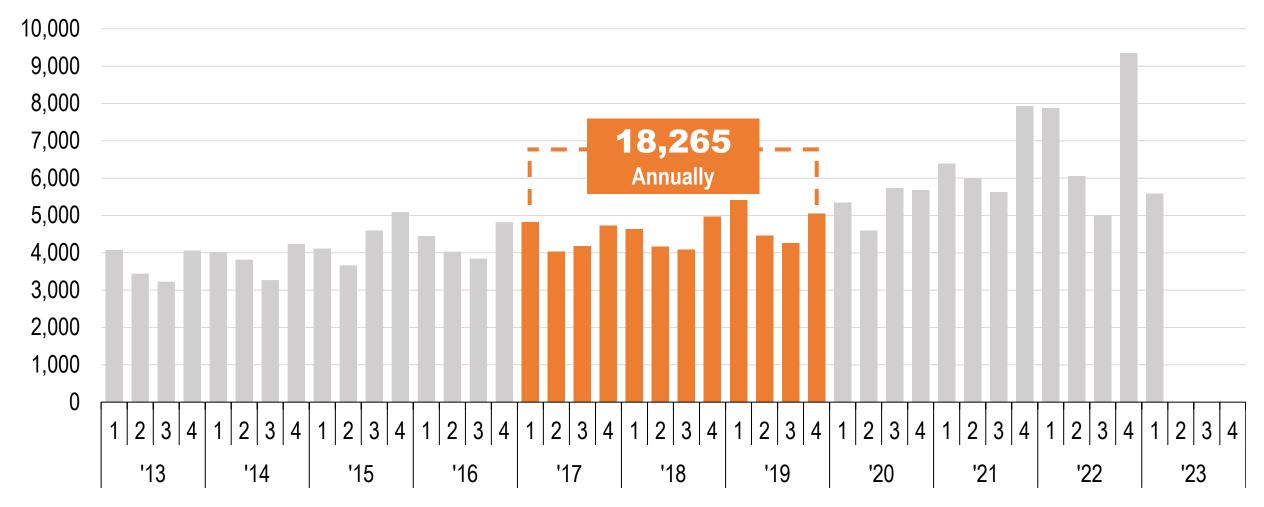


Source: Bureau of Labor Statistics



New Businesses

Total Private | Arizona

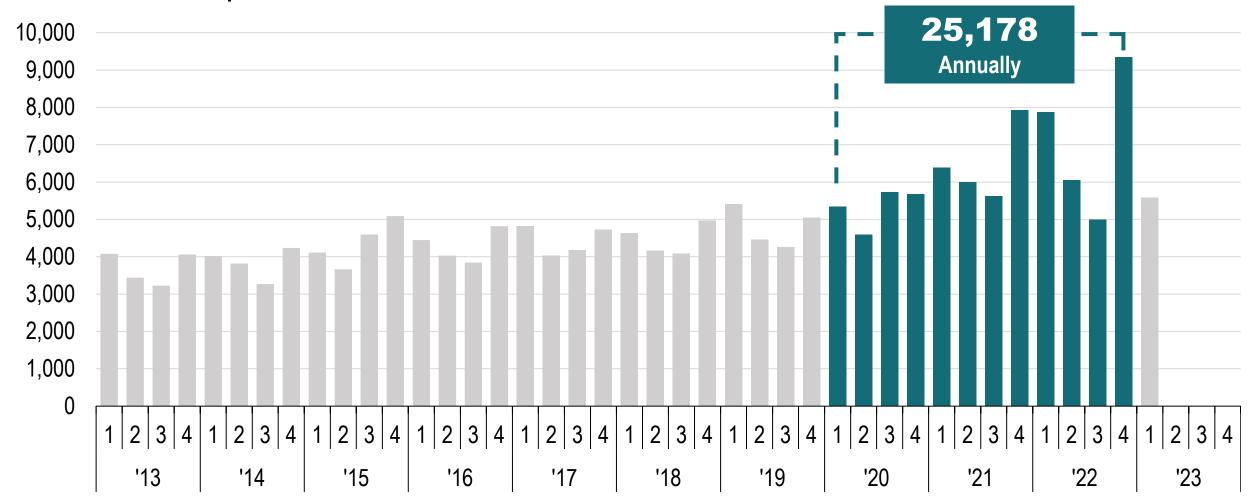


Source: Bureau of Labor Statistics



New Businesses

Total Private | Arizona



Source: Bureau of Labor Statistics



+20,738

Incremental New Businesses Between 2020 and 2022

Image Source: (Marquess789/shutterstock.com)



OPEN

Welcome

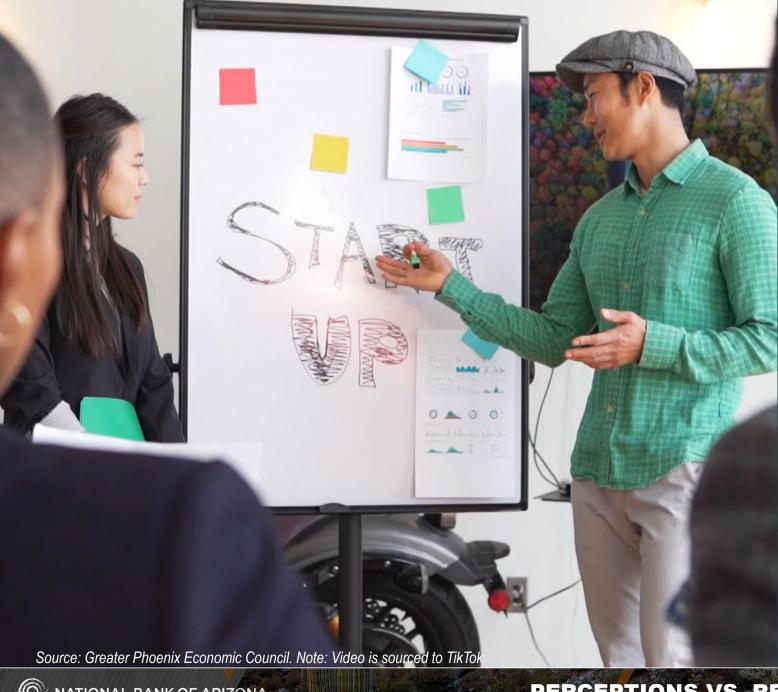
97.9%

Of All Businesses in Arizona are Small Businesses

WINTER 2023

Source: Bureau of Labor Statistics. Note: Image is sourced to (giggsy25/shutterstock.com).





\$5.1 B

\$22 B

Goods Exported by 7,600 Arizona Firms

87%
Small Businesses
Participating
>6,600

28%
Of Identified
Exports Amounting
to \$6.1 B

Source: Small Business Association Office of Advocacy

Small Businesses in Arizona



76.6%

Of Arizona's workforce employed by a small business.



Individuals are employed by over 210,000 small businesses.



95.0%

Of all small businesses employ a staff of < 50 people.

Image Source: (canadastock/shutterstock.com)

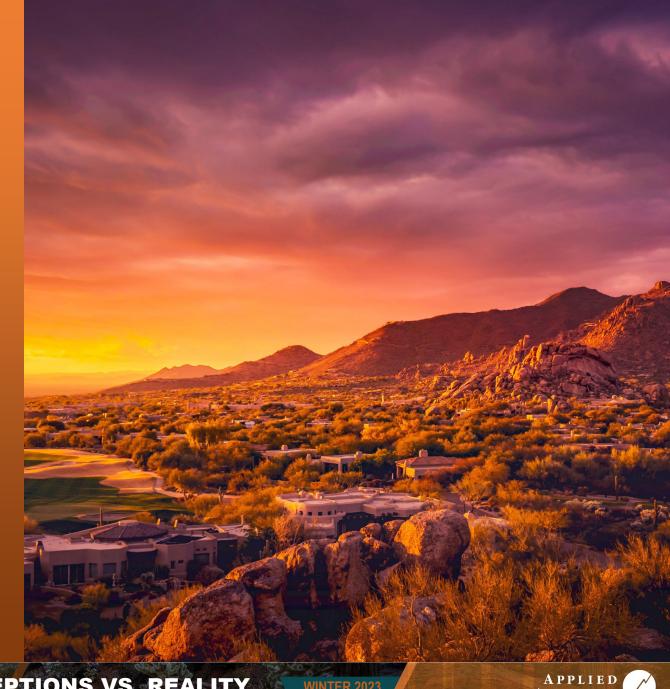




Fastest-growing startup city in the country is Scottsdale, Arizona

Source: York IE. Note: Image is sourced to (BCFC/shutterstock.com).









+300%

Growth in tech leasing activity across Phoenix

Source: CBRE. Note: Image is sourced to (metamorworks/shutterstock.com).







Top county for attracting talent is Maricopa County

Source: Clever Real Estate. Note: Image is sourced to (Vitalii Vodolazskyi/shutterstock.com).



LinkedIn recognizes Arizona as first in workforce confidence

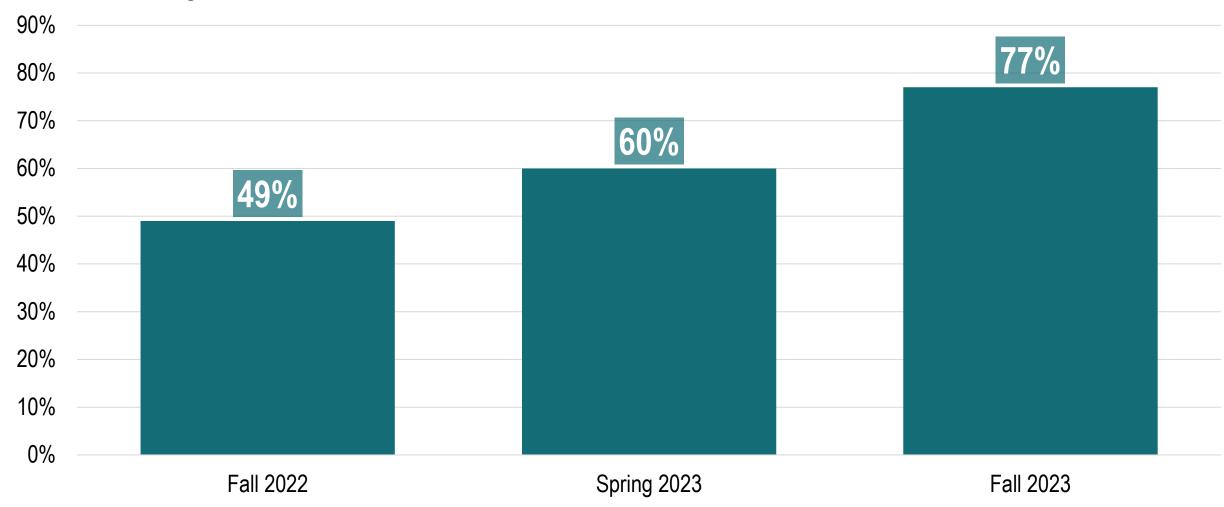
Source: LinkedIn. Note: Image is sourced to (Jacob Lund/shutterstock.com).





Small Business Optimism

21-Year High





Source: PNC



PERCEPTIONS VS. REALITY

