State of the Northwest Arkansas Region 2023





Sam M. Walton College of Business



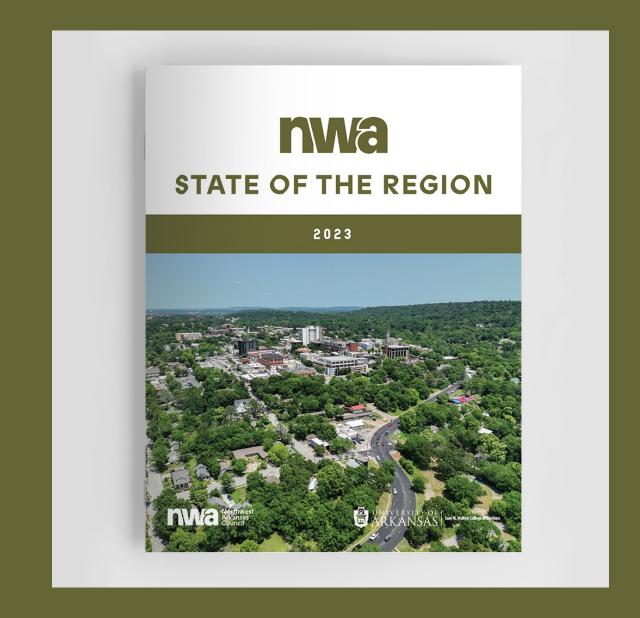






Nelson Peacock

President & CEO
Northwest Arkansas Council

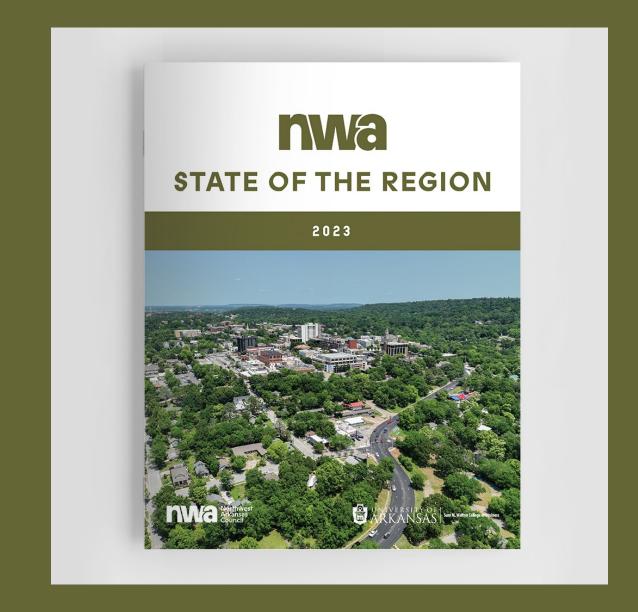






Donna Morris

Executive Vice President & Chief People Office Walmart





Nelson Peacock

President & CEO
Northwest Arkansas Council



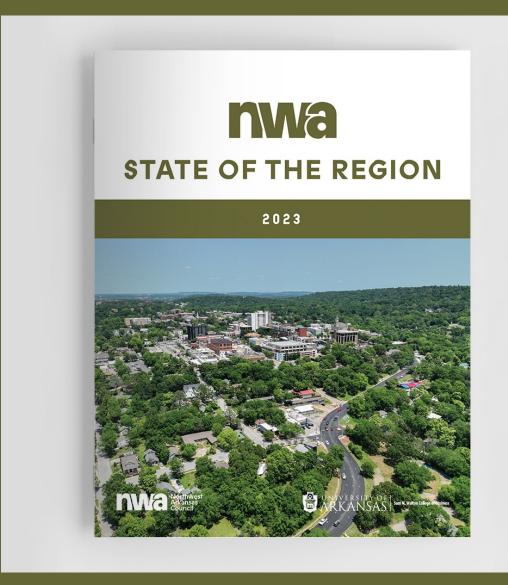
Donna Morris

Executive Vice President & Chief People Officer Walmart



Mervin Jebaraj

Director, Center for Business and Economic Research Walton College of Business, University of Arkansas



State of the National, State and Regional Economy

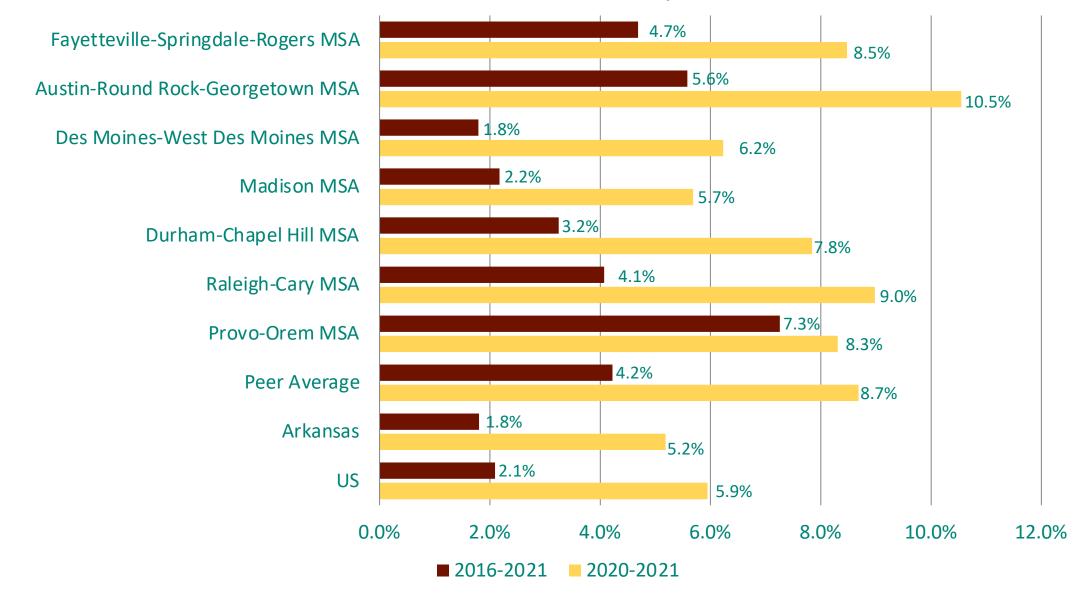
Mervin Jebaraj, Director Center for Business and Economic Research October 25, 2023

Twitter:

#nwasotr @NWArkCouncil @MervinJebaraj

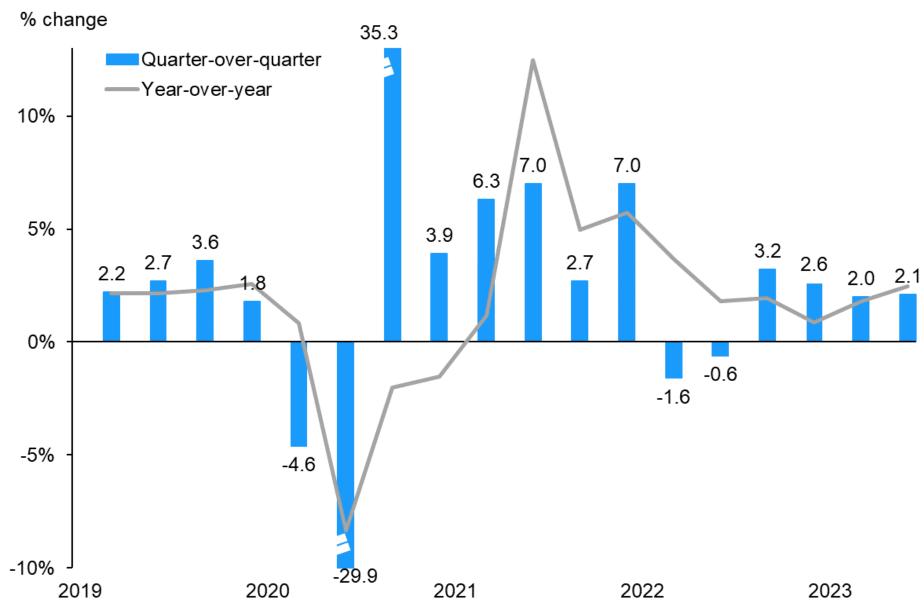
Change in Real GDP

Source: U.S. Bureau of Economic Analysis





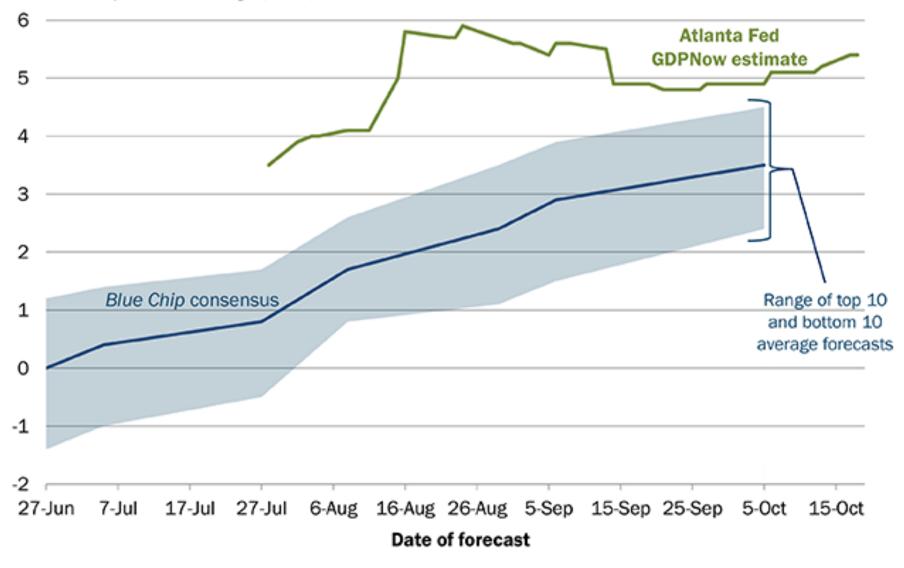
Real GDP Growth 2019Q1-2023Q2



Source: BEA, EY-Parthenon

Evolution of Atlanta Fed GDPNow real GDP estimate for 2023: Q3

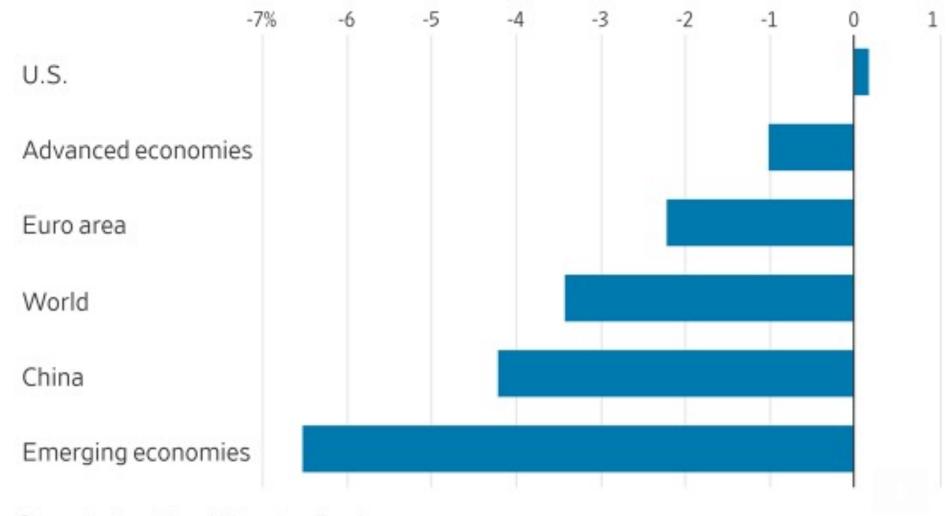
Quarterly percent change (SAAR)



Sources: Blue Chip Economic Indicators and Blue Chip Financial Forecasts

Note: The top (bottom) 10 average forecast is an average of the highest (lowest) 10 forecasts in the Blue Chip survey.

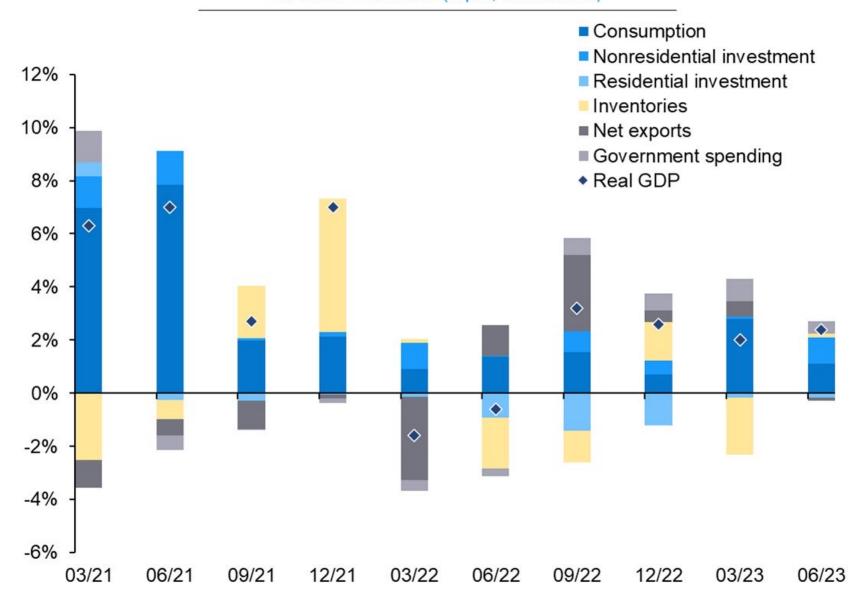
Difference between countries' 2023 real GDP and the IMF's prepandemic projections



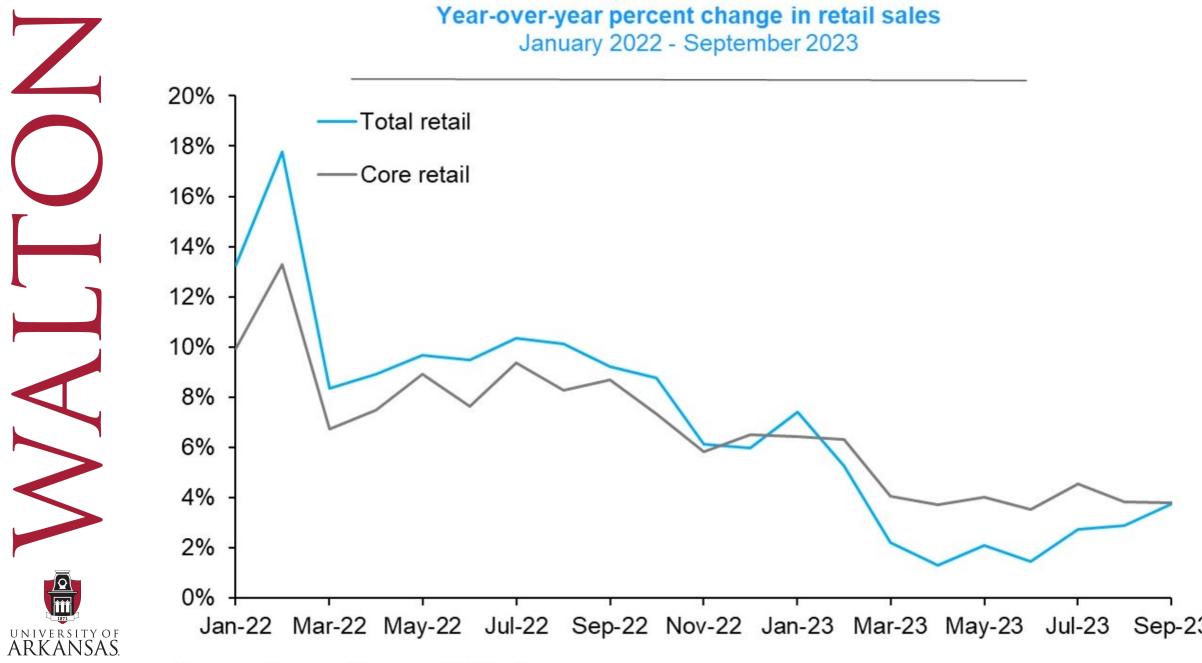
Source: International Monetary Fund

US: Real GDP Growth Contributions

Q1 2021 - Q2 2023 (%pts, annualized)



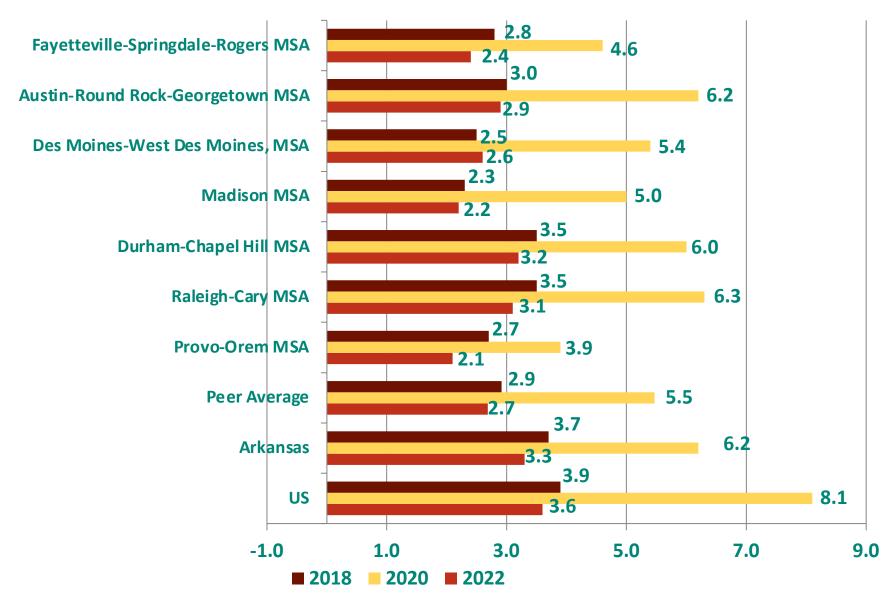
Source: BEA; EY-Parthenon



Source: Census Bureau; EY-Parthenon

Unemployment Rate, Annual Average

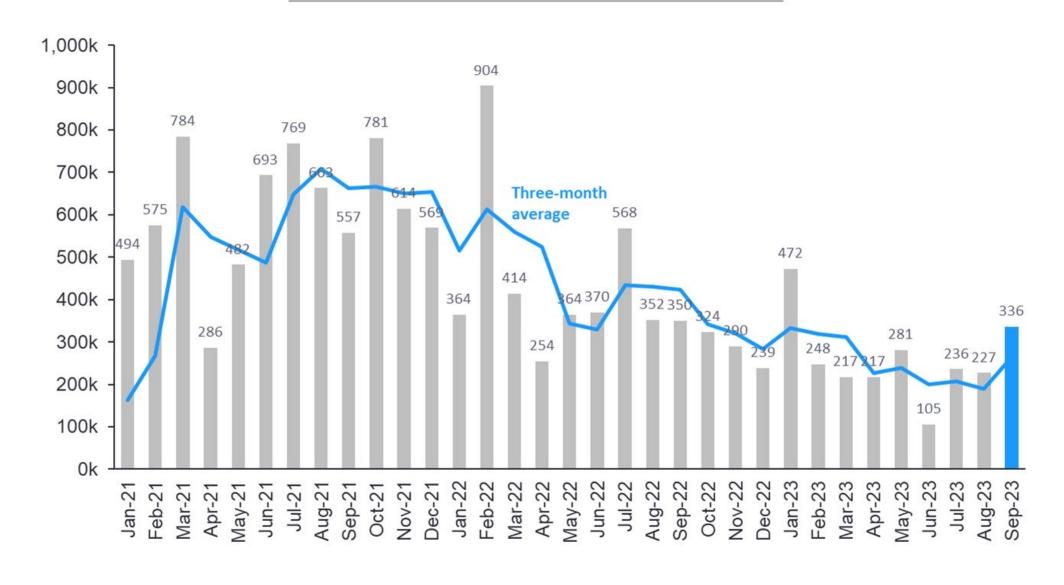
Source: U.S. Bureau of Labor Statistics



Month-over-month change in total nonfarm employment

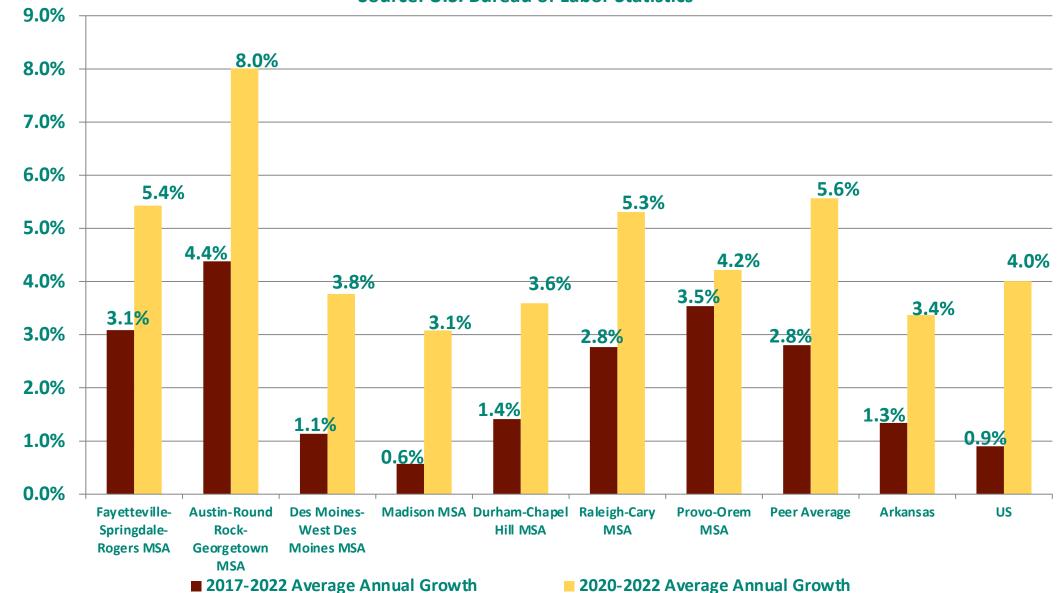
January 2021 - September 2023





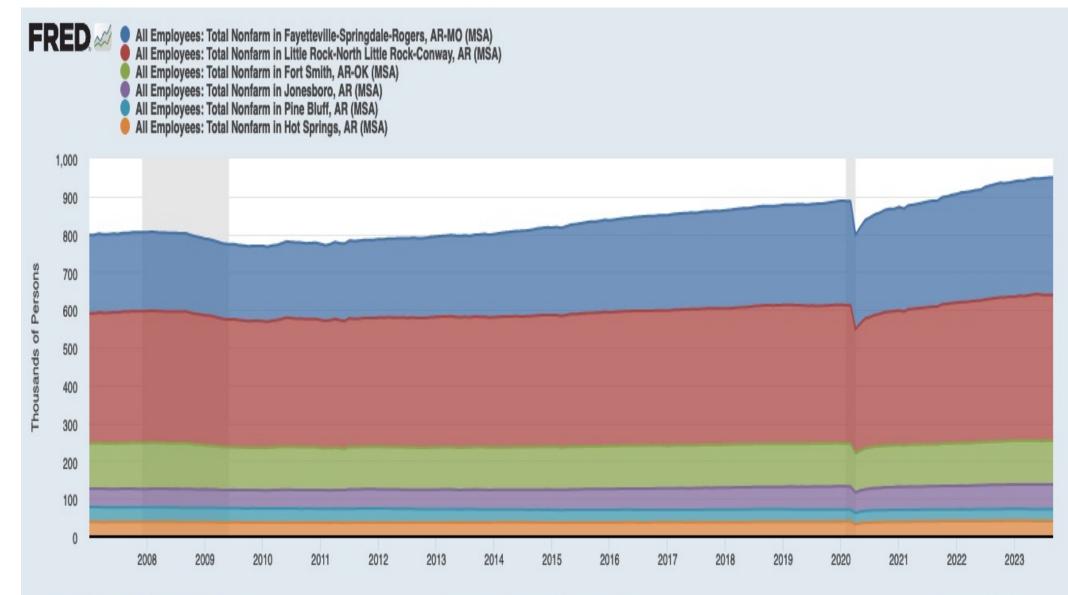
Source: BLS; EY-Parthenon

Employment Growth Rate Source: U.S. Bureau of Labor Statistics









Nominal average hourly earnings, all employees, and headline CPI-U Percent, year-on-year





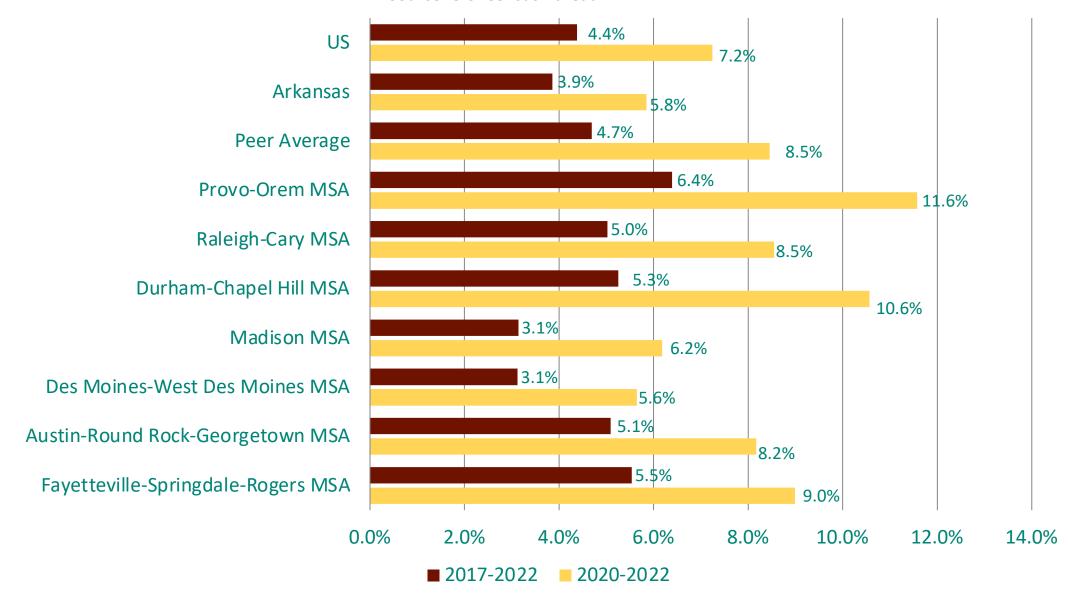
Sources: Bureau of Labor Statistics; CEA calculations.





Change in Median Income

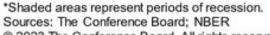
Source: U.S. Census Bureau



Present Situation and Expectations Index

Index, 1985 = 100



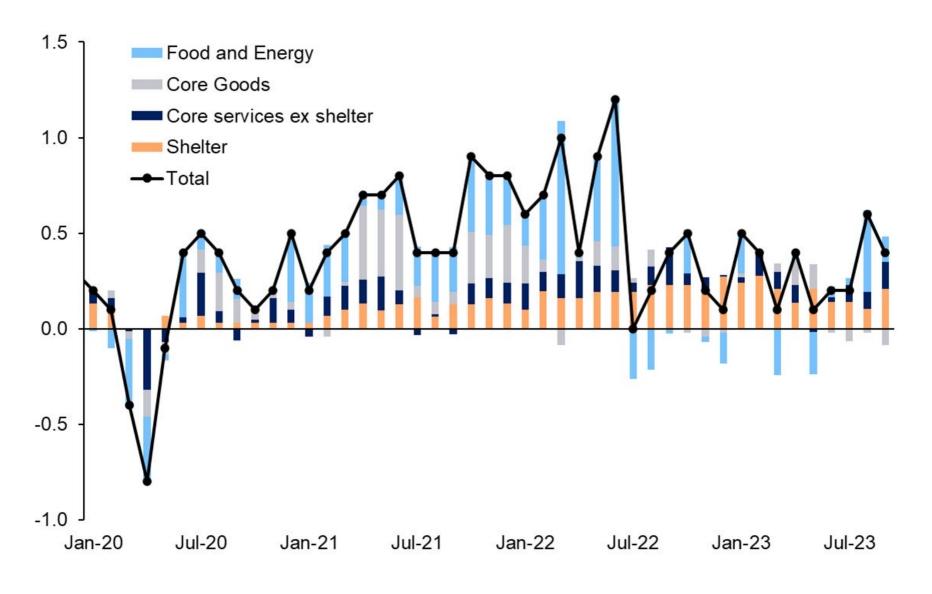


Sources: The Conference Board; NBER © 2023 The Conference Board. All rights reserved.

Month-over-month percent change in consumer price index (CPI)

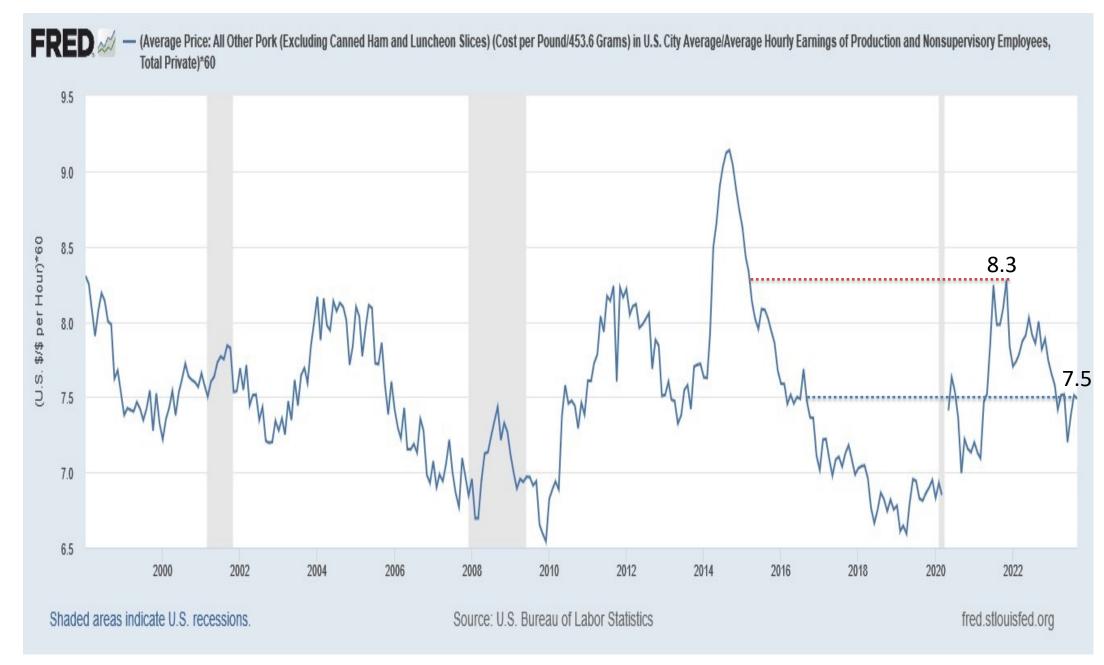
January 2020 - September 2023



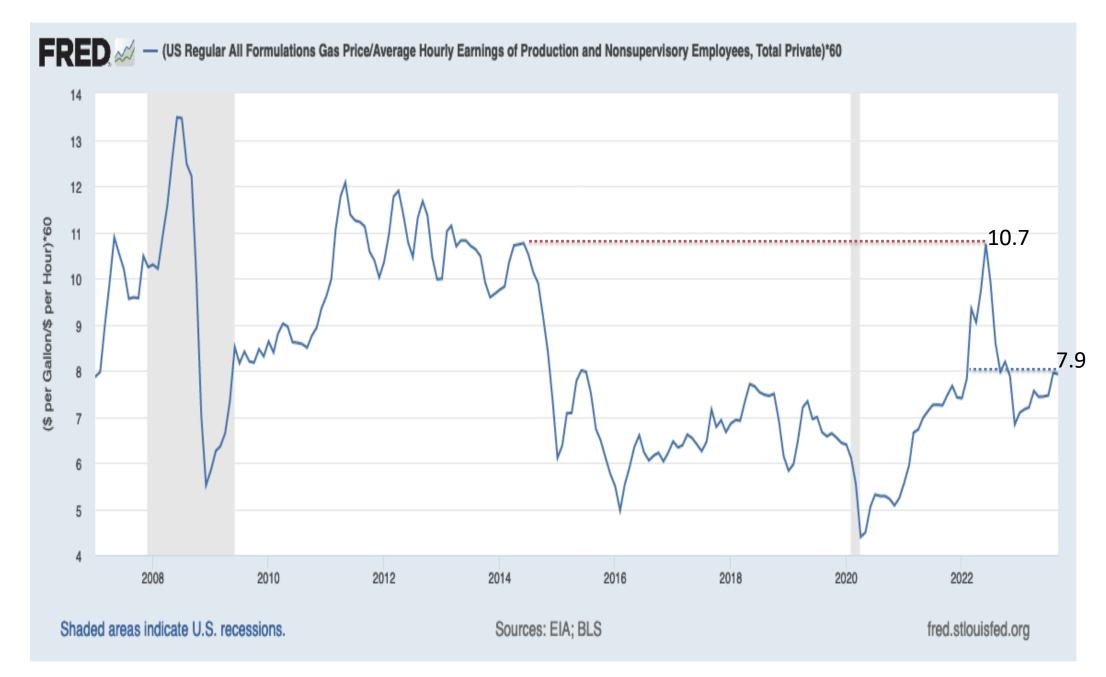


Source: BLS; EY-Parthenon

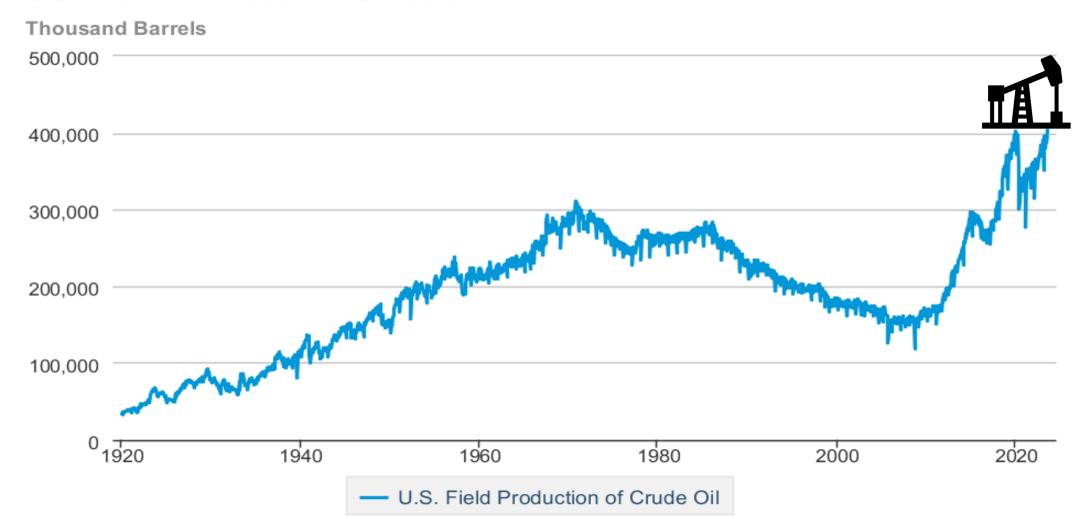








U.S. Field Production of Crude Oil

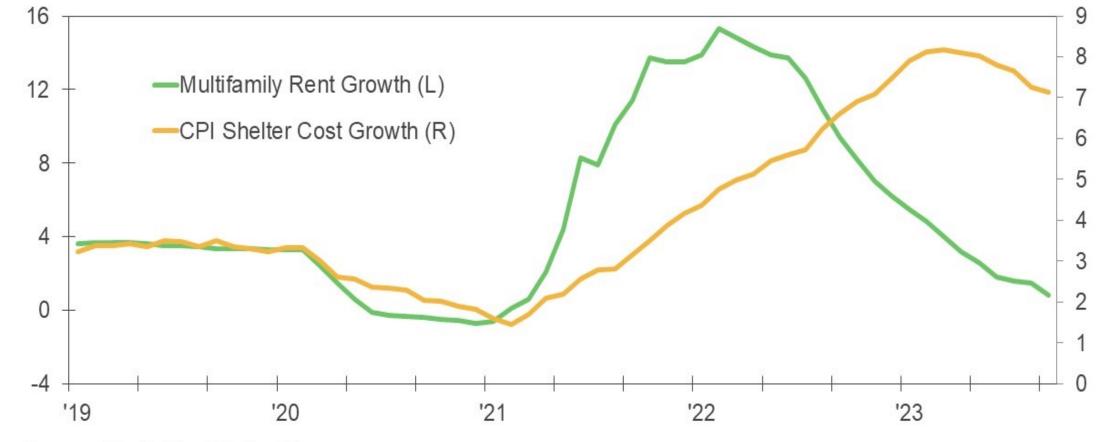


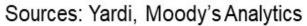




Shelter Inflation is Set to Moderate Much More

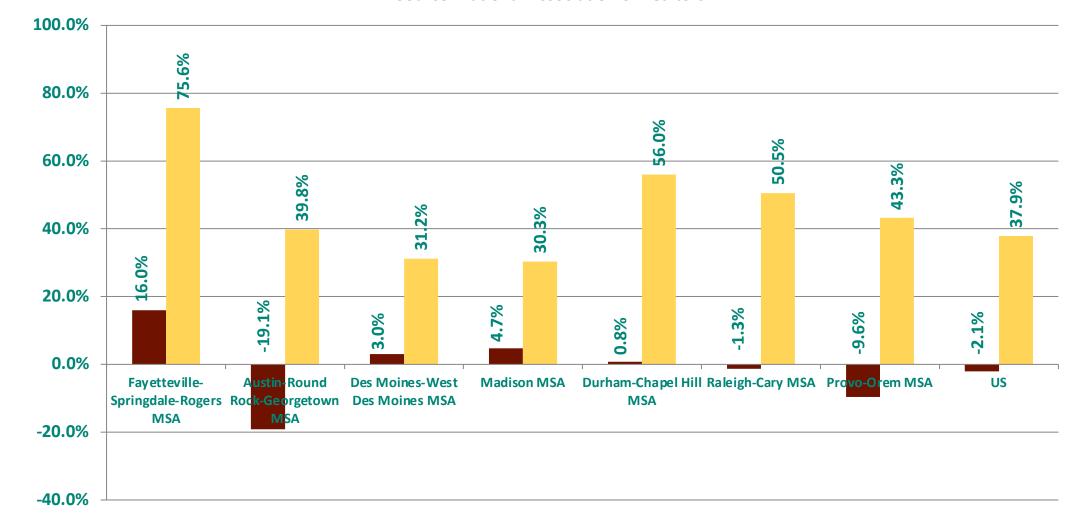






Median Price of Single Family Homes

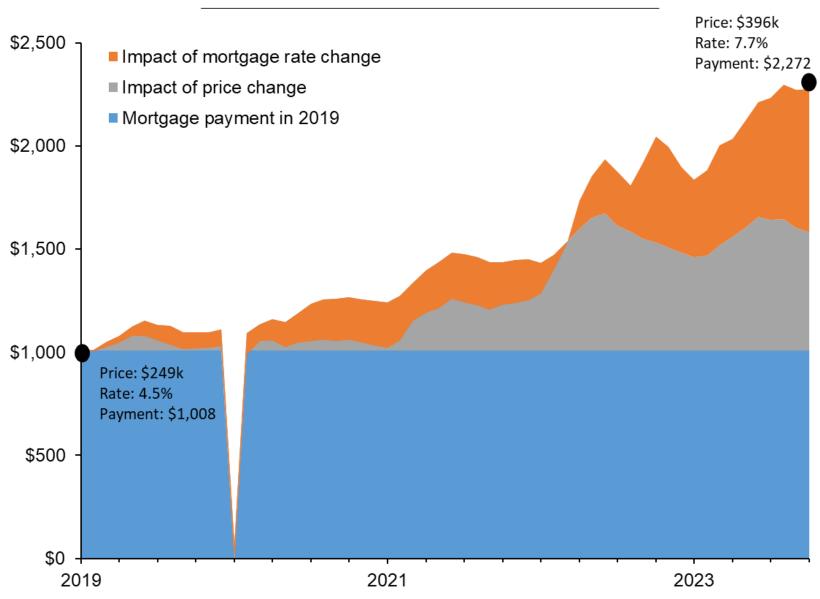
Source: National Association of Realtors





Monthly mortgage payment on median-price existing home

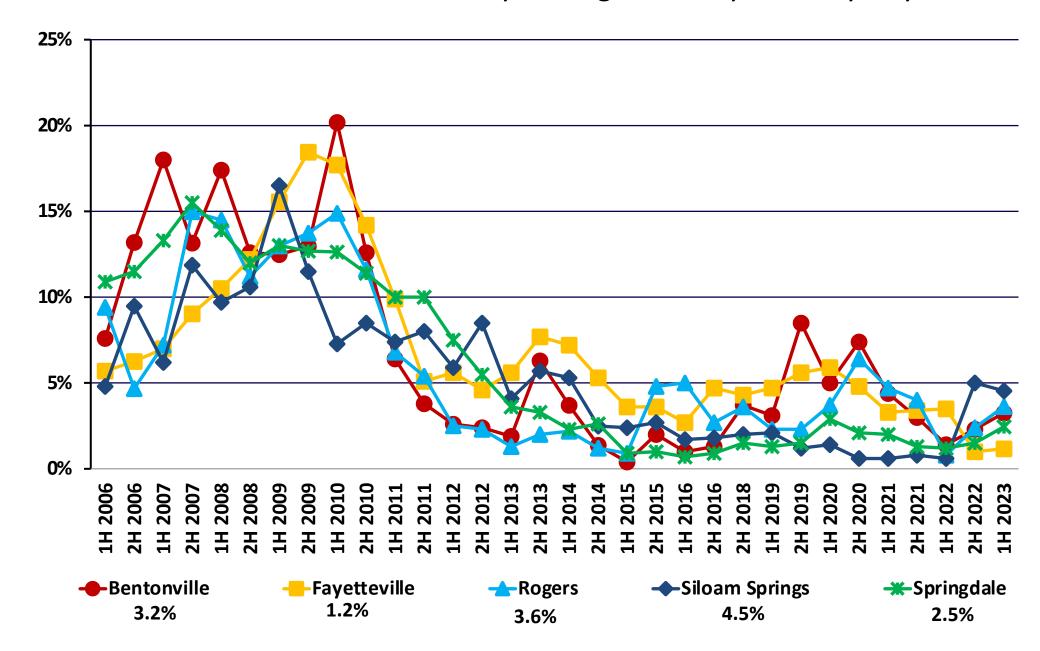
January 2019 - September 2023



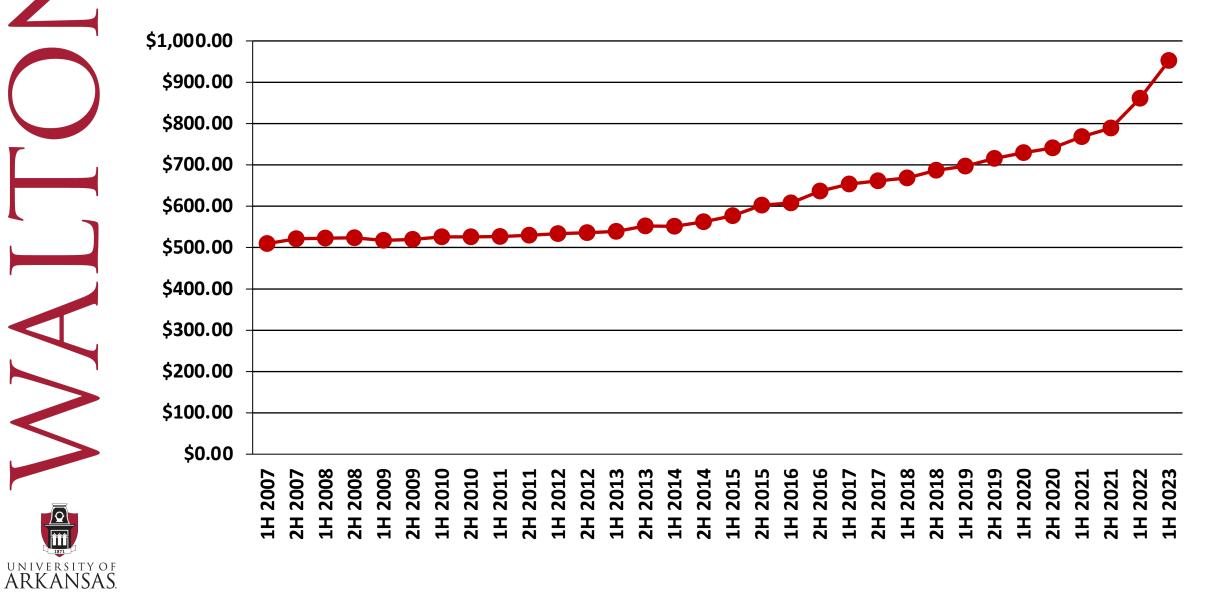
Source: National Association of Realtors; EY-Parthenon



Selected Cities Multifamily Average Vacancy Rates by City



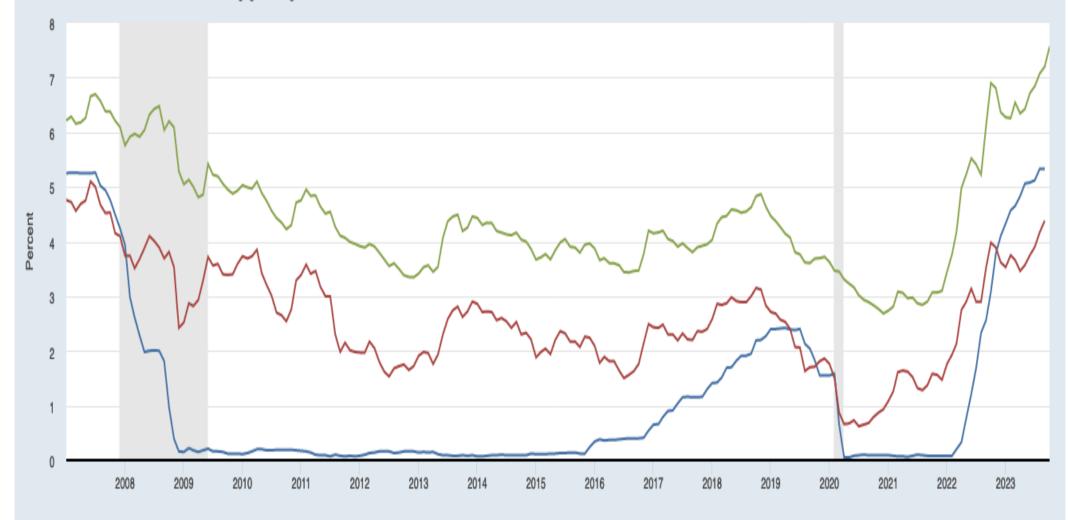
Northwest Arkansas Price per Unit







- Federal Funds Effective Rate
- Market Yield on U.S. Treasury Securities at 10-Year Constant Maturity, Quoted on an Investment Basis
 30-Year Fixed Rate Mortgage Average in the United States



Shaded areas indicate U.S. recessions.

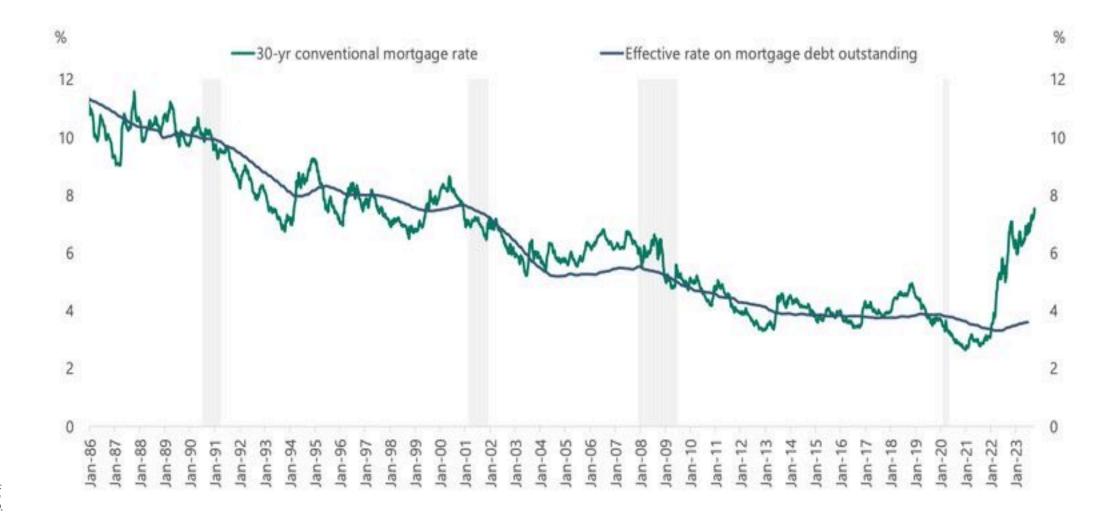
Sources: Board of Governors; FHLMC

fred.stlouisfed.org



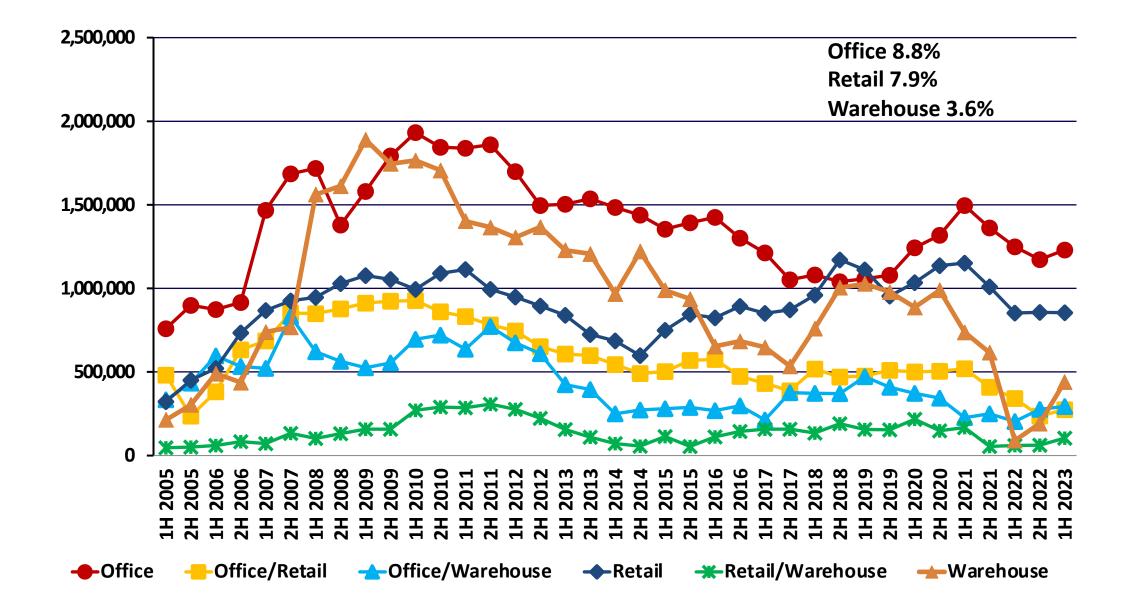


Effective outstanding mortgage rate around 3.6%

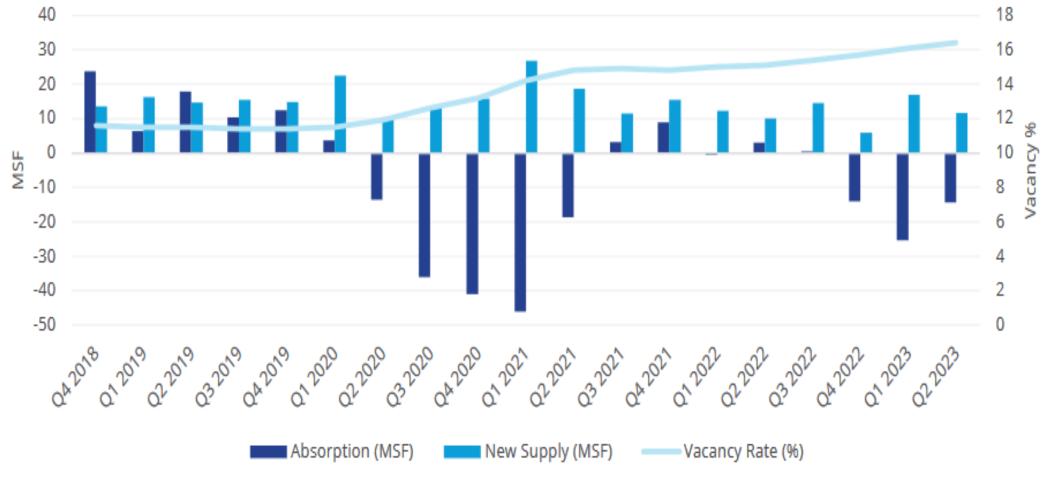




Northwest Arkansas Available Square Footage



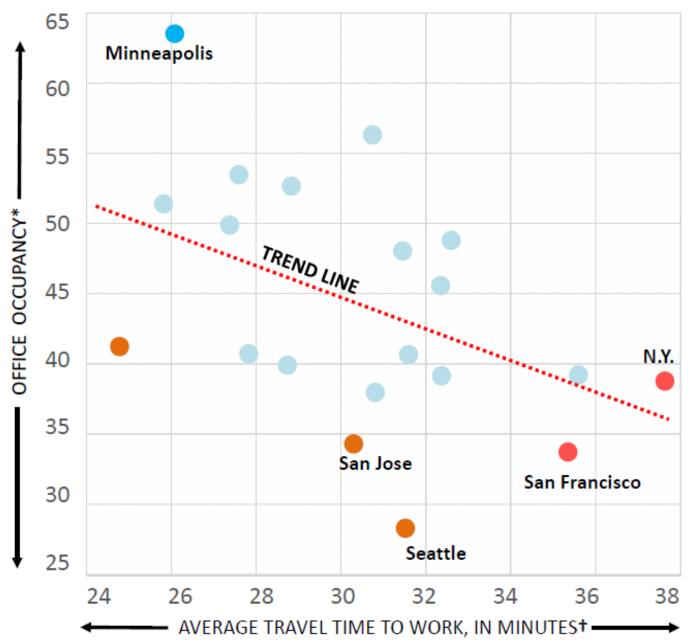
U.S. Office Market: Supply, Demand & Vacancy





Source: Colliers

Commutes Hinder Office Return



Source: U.S. Census Bureau 2019 American Community Survey (travel time); Kastle Systems (office occupancy)

CORE DOWNTOWN NON-RESIDENT WORKER RECOVERY RATE BY COMMUTING DISTANCE

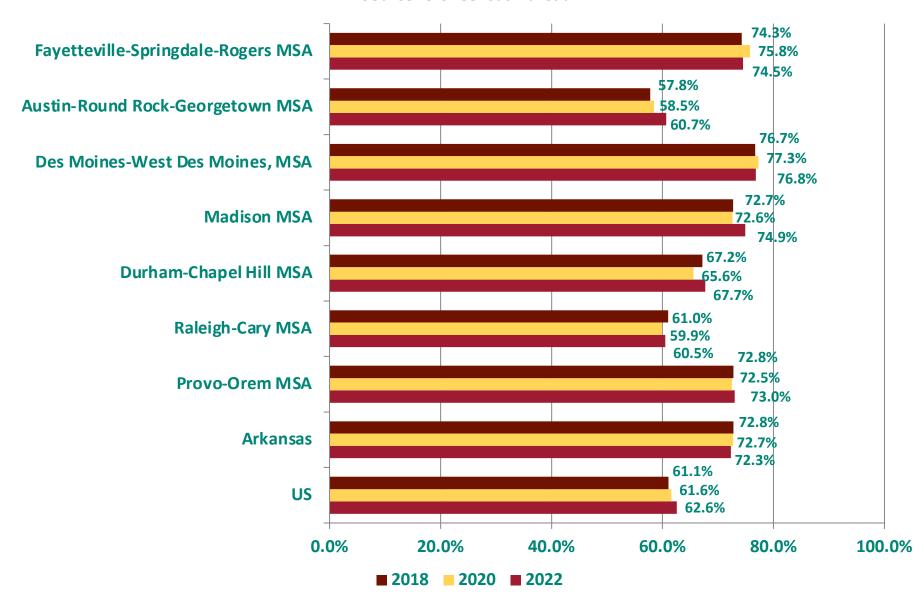
Midtown Manhattan 60% 20% 2020 Q1 2020 Q2 2020 Q3 2020 Q4 2021 Q1 2021 Q2 2021 Q3 2021 Q4 2022 Q1 2022 Q3 2022 Q4 2023 Q1 2023 Q2 0-2 Miles 2-5 Miles 5-10 Miles 10+ Miles San Francisco 2020 Q1 2020 Q2 2020 Q3 2020 Q4 2021 Q1 2021 Q2 2021 Q3 2021 Q4 2022 Q1 2022 Q2 2022 Q3 2022 Q4 2023 Q1 2023 Q2



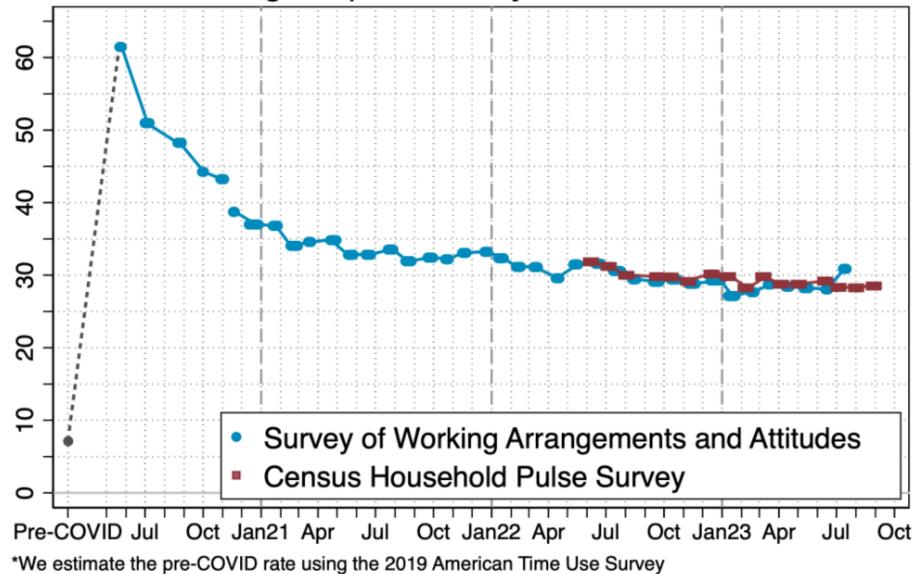


Commuting: Percent of Workers Traveling Fewer than 30 Minutes

Source: U.S. Census Bureau



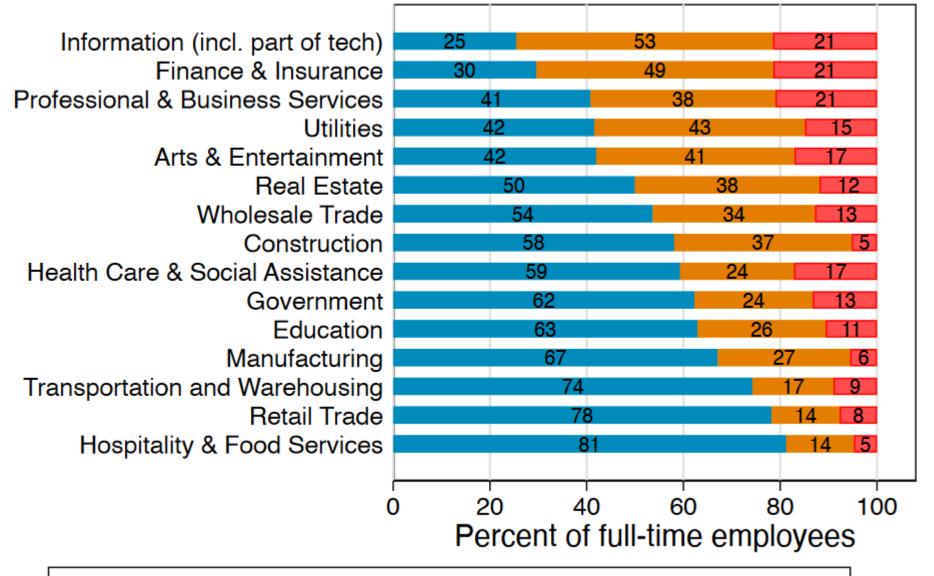
Percentage of paid full days worked from home







Working Arrangements by Industry May to August 2023



Hybrid

Fully on site

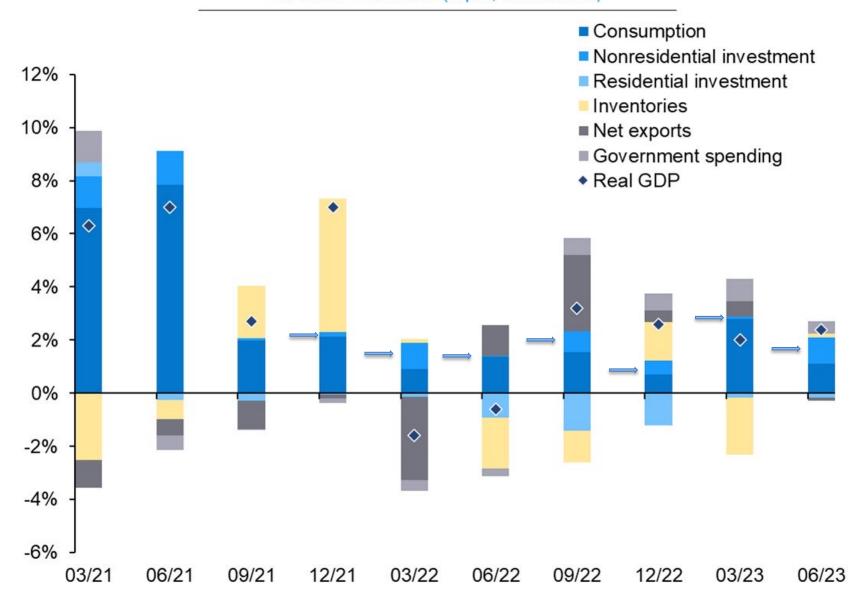




Full WFH

US: Real GDP Growth Contributions

Q1 2021 - Q2 2023 (%pts, annualized)



Source: BEA; EY-Parthenon

Real Construction Spending: Manufacturing



Note: Chart is in inflation-adjusted 2023 dollars.

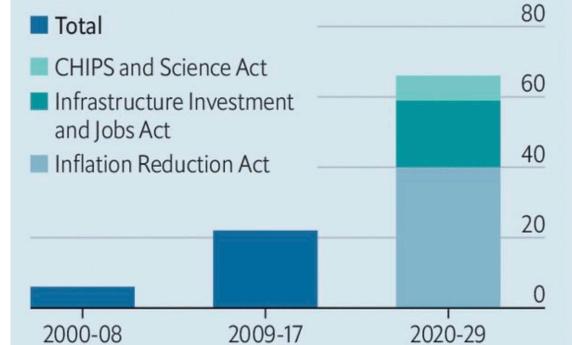
Source: BLS, Census Bureau

Green giant

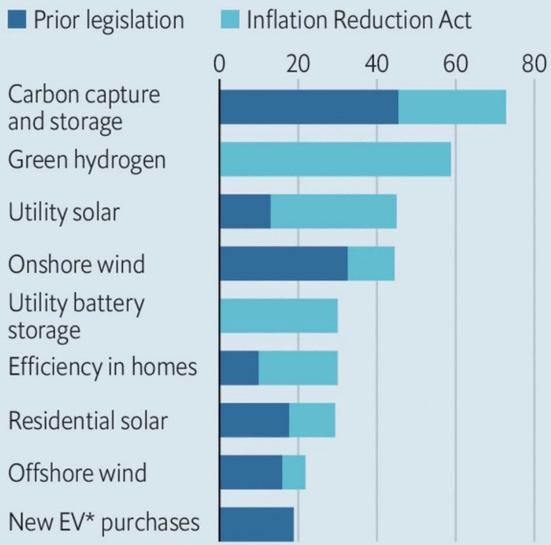
United States, federal government spending on climate change, \$bn

Annual average

Sources: RMI; Credit Suisse

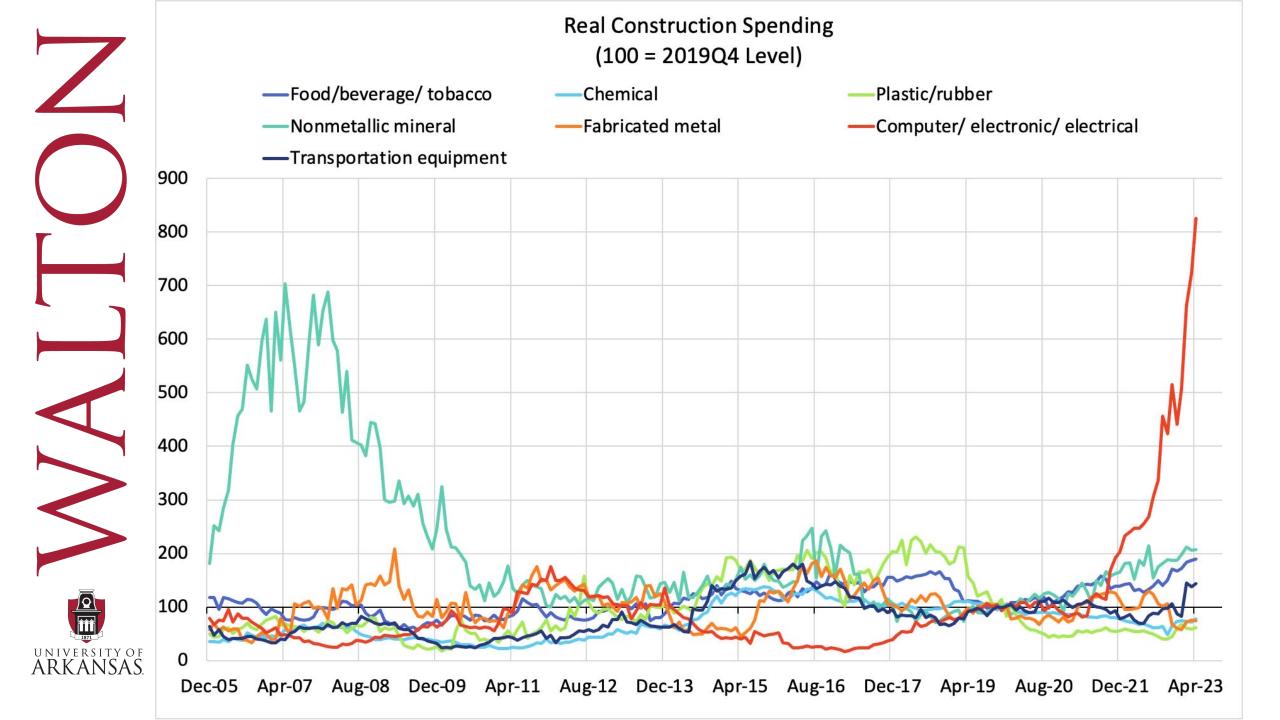


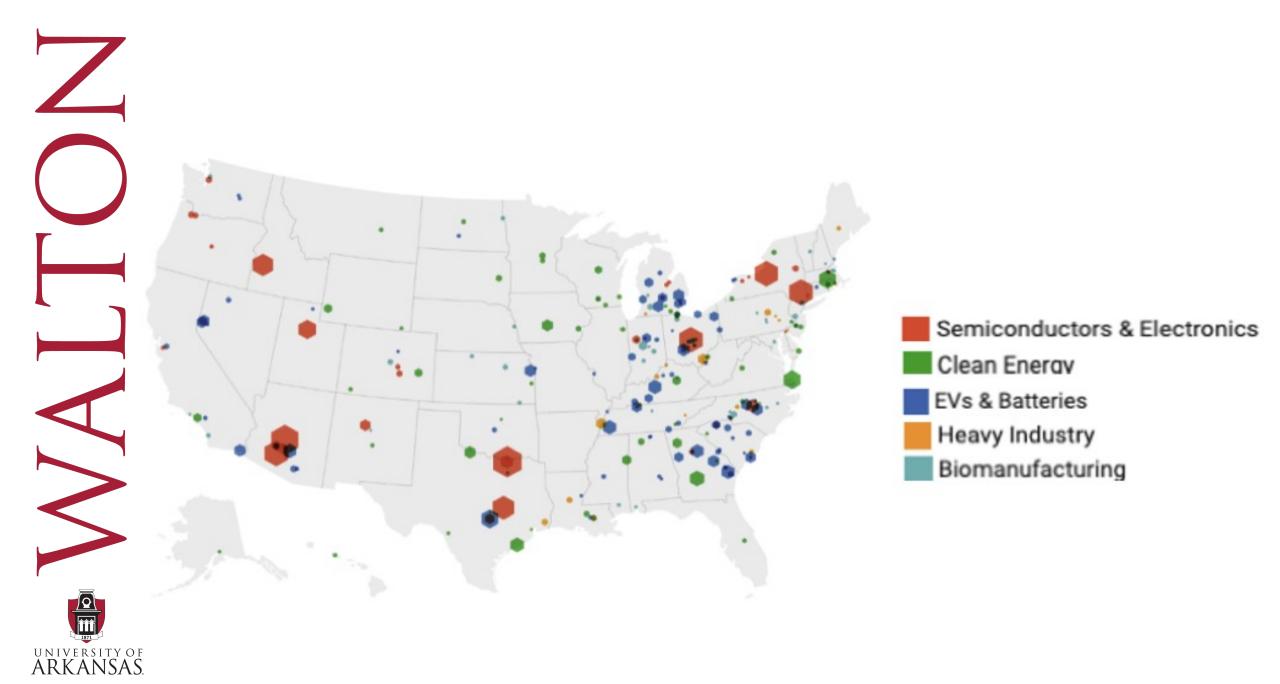
United States, tax credits and other incentives for selected clean technologies
As % of average total cost, 2022

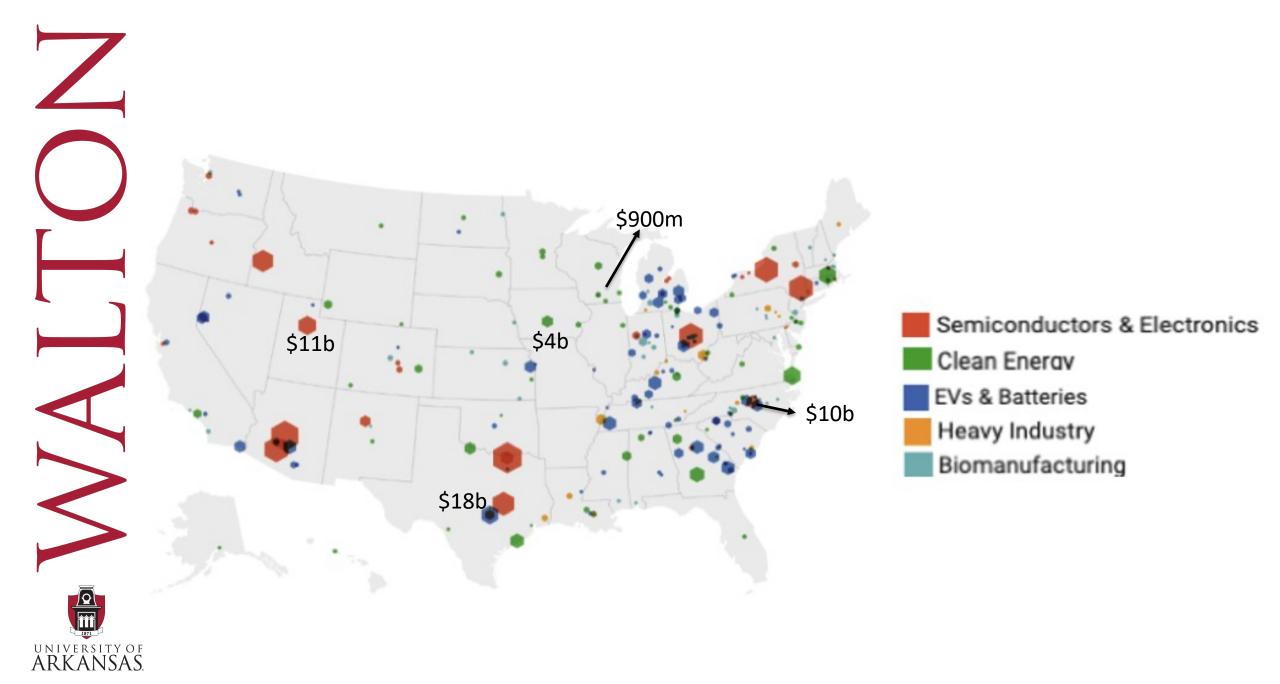


Source: Goldman Sachs

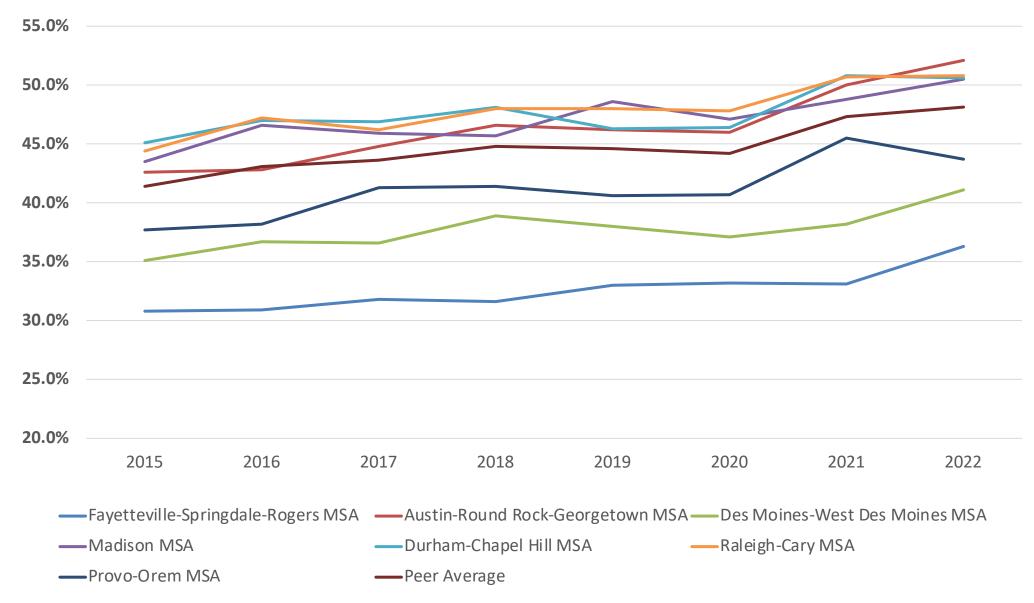
*Electric vehicle

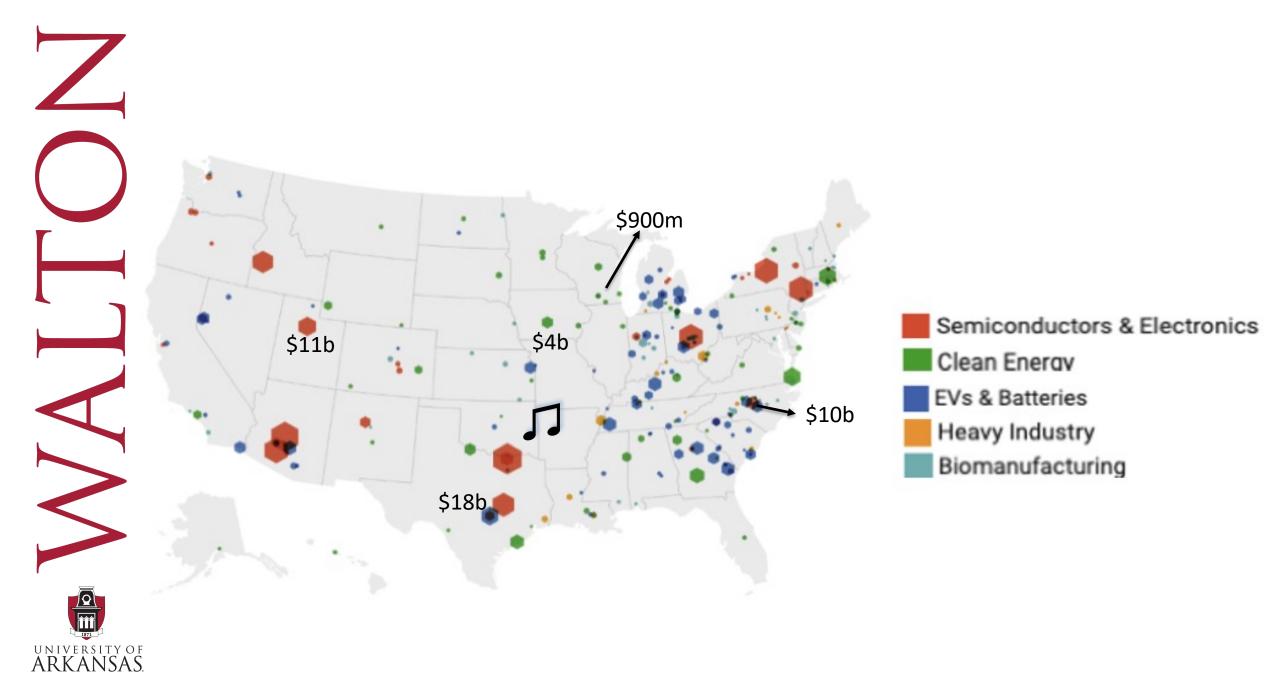






Bachelor's Degree or Higher in Adult Population Source: U.S. Census Bureau





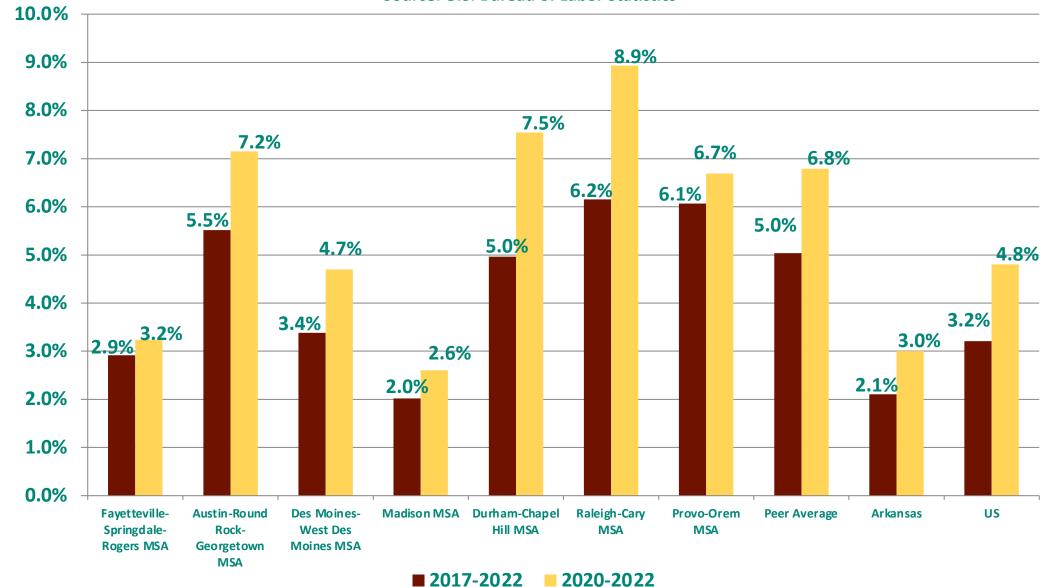
9 August 2023

Arkansas begins construction of US national Multi-User Silicon Carbide Research and Fabrication Facility

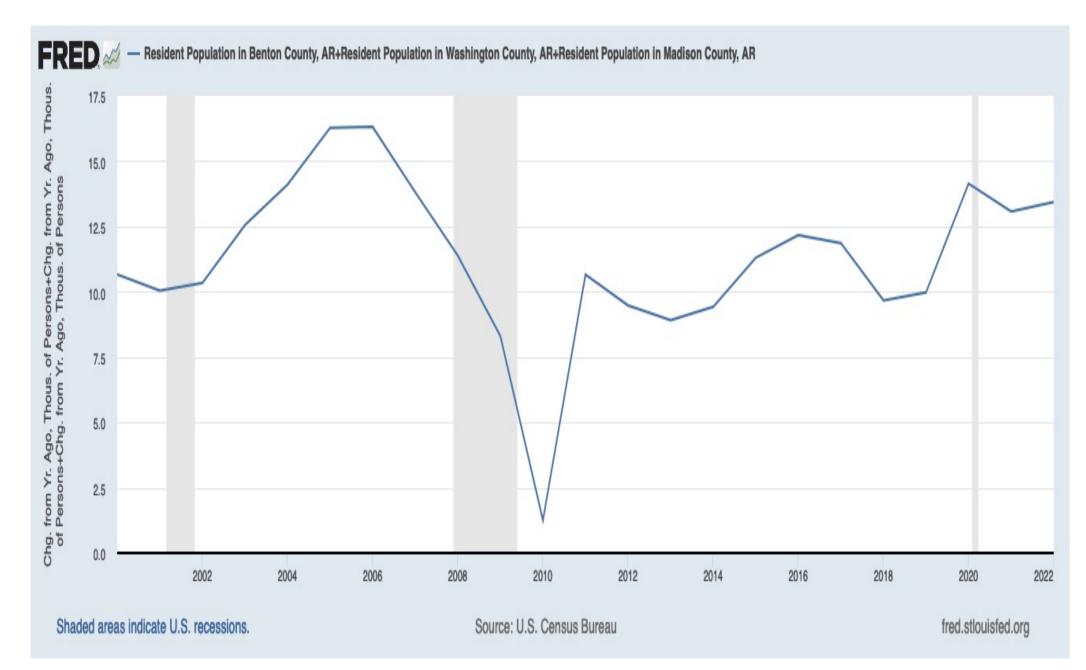


Business Establishment Growth

Source: U.S. Bureau of Labor Statistics









INDICATOR	MOST RECENT Annual data	VALUE FROM 2 years Prior	2-YEAR PERCENT Change	
Population Estimate, July 2022	576,403	549,566	4.9%	\odot
Real GDP (millions of chained 2012 dollars), 2021	\$28,042	\$24,961	12.3%	\odot
Avg. Annual Unemployment Rate, 2022	2.4%	4.6%	-2.2%	\odot
Total Nonfarm Employment, 2022	303,000	272,600	11.2%	\odot
Median Household Income, 2022	\$73,364	\$61,761	18.8%	\odot
Average Annual Wages, 2022	\$53,810	\$50,470	6.6%	\odot
Business Establishments, 2022	15,050	14,121	6.6%	\odot
% of Adult Population w/a bachelor's degree or Higher, 2022	36.3%	33.2%	3.1%	\odot
Poverty Rate, 2022	10.9%	12.1%	-1.2%	\odot
R&D Expenditures (thousands), 2021	\$164,443	\$180,225	-8.8%	
Average Domestic Airfare, 2022	\$499	\$374	33.5%	



PEER REGIONS OVERVIEW

	Fayetteville- Springdale- Rogers MSA	Austin- Round Rock- Georgetown MSA	Des Moines- West Des Moines MSA	Madison MSA	Durham- Chapel Hill MSA	Raleigh- Cary MSA	Provo- Orem MSA
Population Growth, 2020-2022	4.9%	5.3%	2.6%	0.8%	2.0%	4.5%	5.9%
Real GDP Growth, 2019-2021	12.3%	13%	7.1%	3.8%	8.8%	7.2%	13.2%
Annual Unemployment Rate, 2020-2022	2.4%	2.9%	2.6%	2.2%	3.2%	3.1%	2.1%
Nonfarm Employment Growth, 2020-2022	11.2%	16.7%	7.7%	6.3%	7.3%	10.9%	8.6%
Median Household Income, 2022	\$73,364	\$94,604	\$80,061	\$83,214	\$79,154	\$92,739	\$95,687
Average Annual Wages, 2022	\$53,810	\$63,890	\$59,950	\$62,200	\$71,720	\$62,500	\$56,440
Business Establishment Growth, 2022	6.6%	14.8%	9.6%	5.3%	15.7%	18.7%	13.8%
% of Adults w/Bachelor's Degree or Higher, 2022	36.3%	52.1%	41.1%	50.5%	50.6%	50.8%	43.7%
Poverty Rate, 2022	10.9%	9.4%	8.9%	9.8%	11.2%	7.9%	7.8%
R&D Expenditures (thousands), 2022	\$164,443	\$779,348	\$360,275	\$1,380,075	\$1,205,883	\$1,237,686	\$624,737
% of Workers Traveling Fewer than 30 Min., 2022	74.5%	60.7%	76.8%	74.9%	67.7%	60.5%	73.0%
Avg. Domestic Airfare, 2022	\$499	\$365	\$403	\$538	\$372	\$372	\$449
							4
RANKING SCALE] st	2 nd	3 rd	4 th	5 th	6 th	7 th

Questions and Comments?

The 2023 State of the Northwest Arkansas Region Report is available at http://cber.uark.edu.

Business Forecast 2024 is January 26, 2024 Sponsorship opportunities are available

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or on Twitter: @MervinJebaraj