

Taking Away the Punch Bowl...

Greater Phoenix Chamber's Economic Outlook 2023

September 23, 2022

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"The Federal Reserve...is in the position of the chaperone who has order the punch bowl removed just when the party was really warming up."

William McChesney Martin, Chairman, Federal Reserve System



The Fed is now removing the punch bowl because of high inflation. It will take a while and it will be painful. More on this later.



The Party is Over



Where do we stand?



In an environment such as the one we are currently in where the economy is in under great stress and with fiscal and monetary policies in relatively uncharted waters the probability of something going wrong increases considerably.



This period can be summed up in one word stagflation



Stagflation

- STAGFLATION inflation and stagnant growth.
- This is where we are now.
- Think 1970's and early 1980's in the U.S. (as well as banana republics when inflation was left unchecked).
- High inflation is a tax on economic growth. So, growth slows.
- Real incomes decline. So, growth slows.
- Impact generally falls on all but mainly on lower and middle income households. So, growth slows.
- Latest tax increases will push impacts onto upper middle class as well. So, growth slows.
- Hampers ability of consumers and businesses to plan and/or invest long term. So, growth slows.



Are we in a Recession?

NOT YET BUT PROBABLY SOON

- NBER's Definition A recession involves a significant decline in economic activity that is spread across the economy and lasts more than a few months.
- It is normally visible in real GDP, real income, employment, industrial production and wholesale/retail trade and there are other signs/indicators as well.



High Interest Rates

- High interest rates affect interest sensitive sectors the most. Other sectors
 are affected by the ripple effects of what goes on in interest sensitive sectors.
- The most interest sensitive sectors include:
 - Housing especially for-sale housing
 - Commercial construction
 - Consumer durables spending such as autos
 - Business spending on plant and equipment as demand goes down and hurdle rates of return go up.
- High interest rates incent savings and less spending.
- Low Interest rates incent lending and spending.

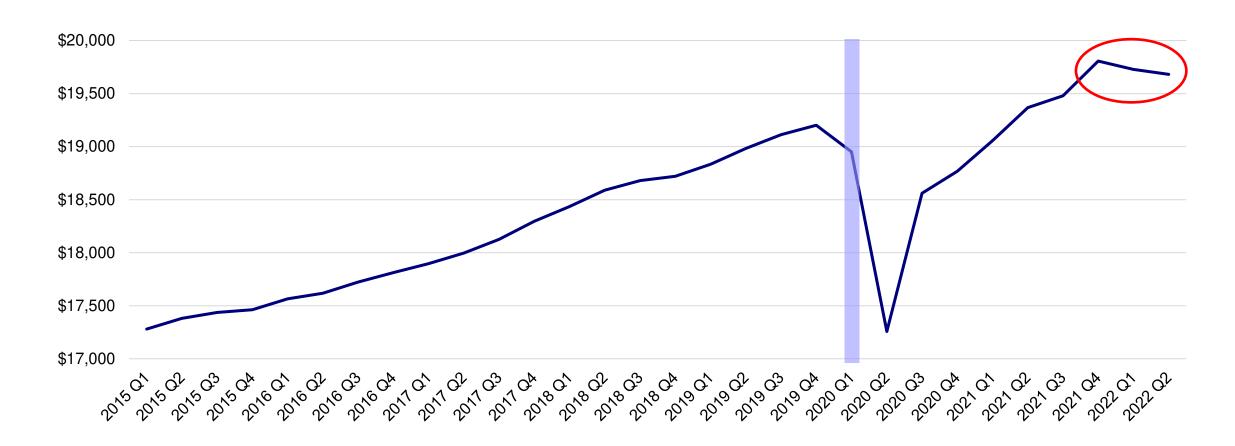




Real GDP (billions)

Source: BEA

Recession Periods

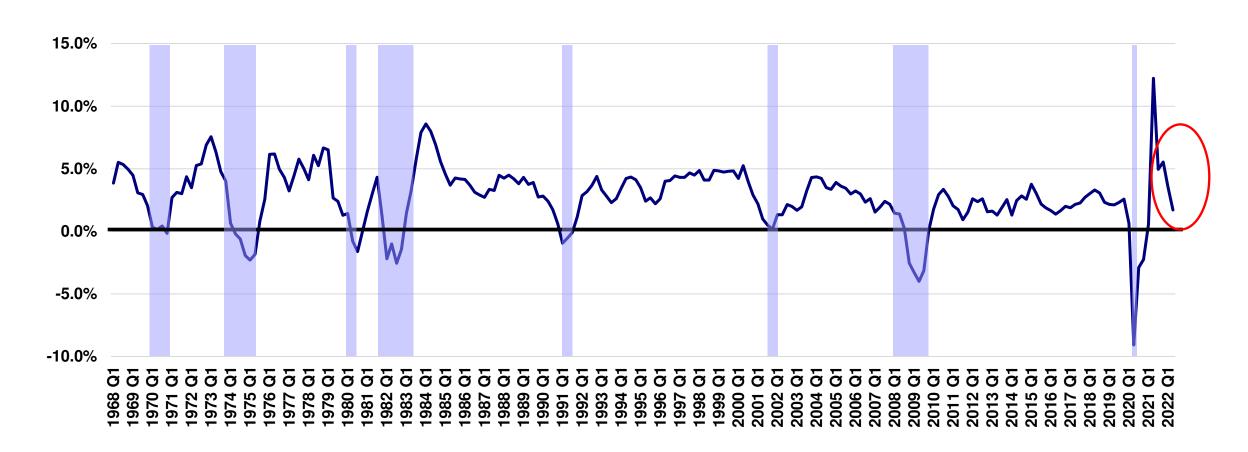




Real GDP

% Change Y/Y 1968 – 2022 Source: BEA

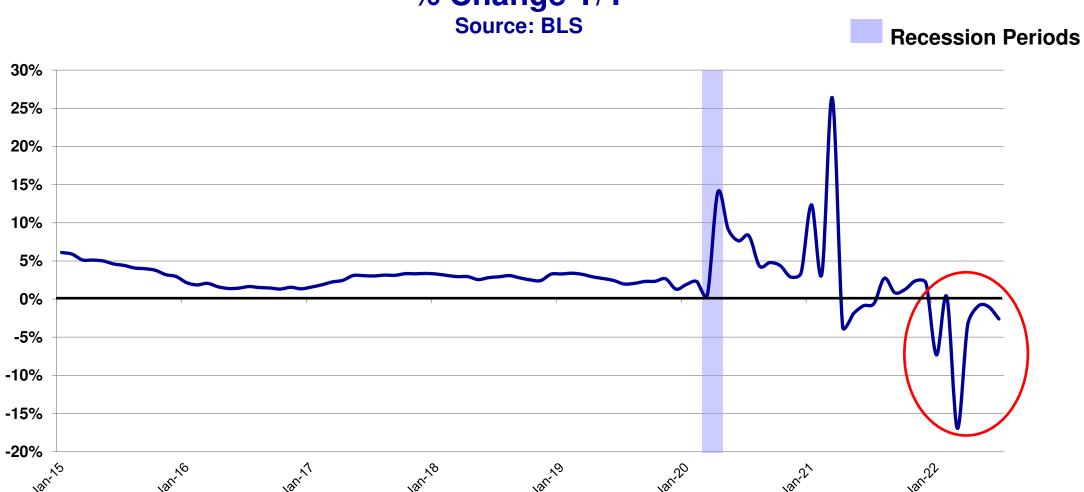
Recession Periods





Real Personal Income

% Change Y/Y

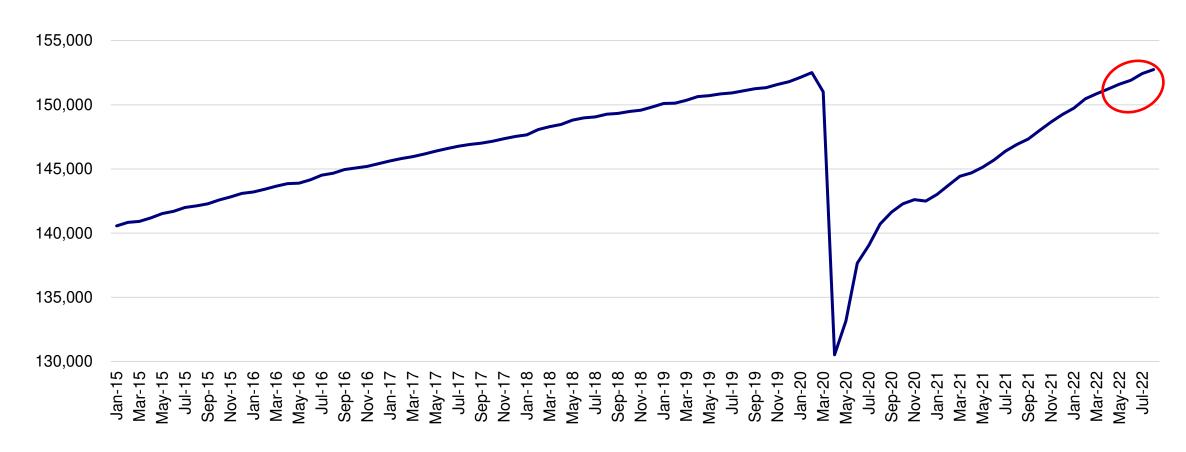




Total Non-farm Jobs (S/A, thousands)

Source: BLS

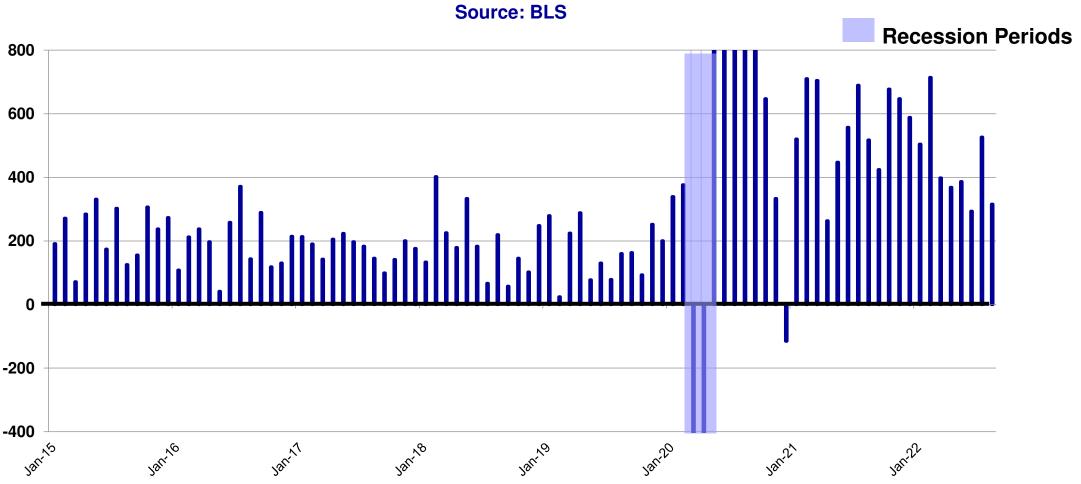
Recession Periods





Total Non-farm Employment

Net Change

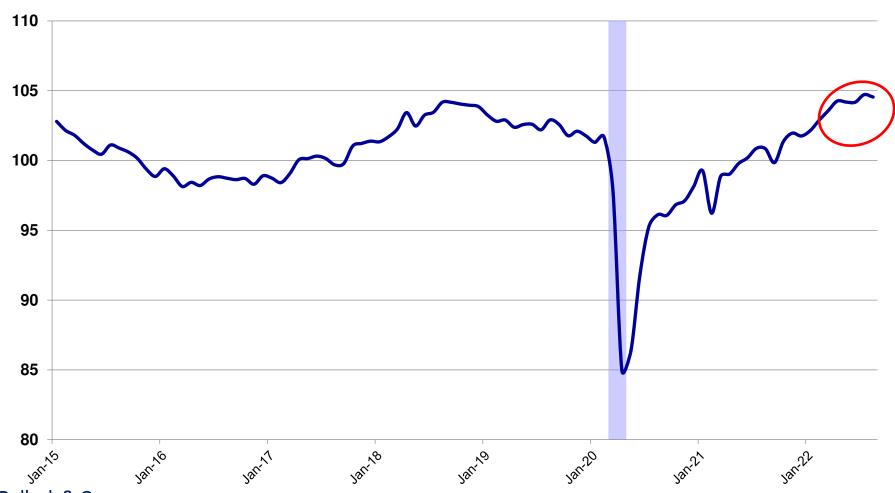


Industrial Production

2015 - 2022*

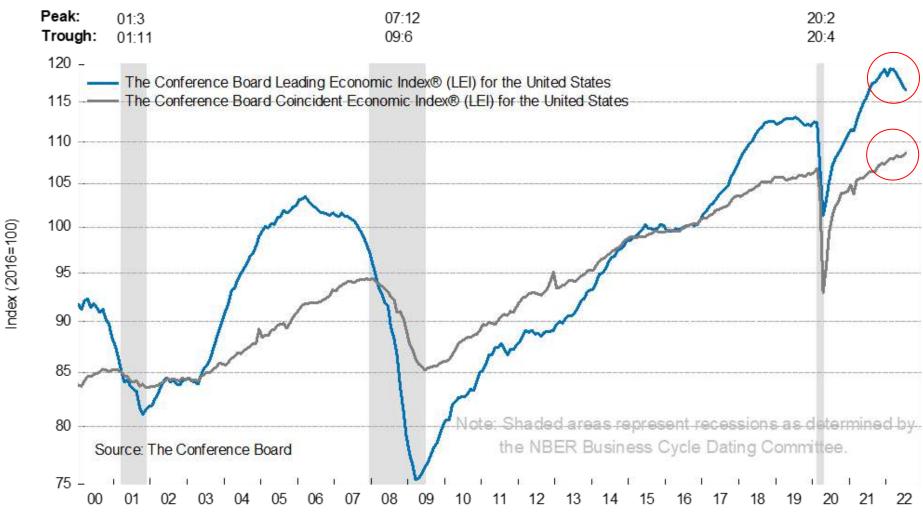
Source: Board of Governors of the Federal Reserve System (US)







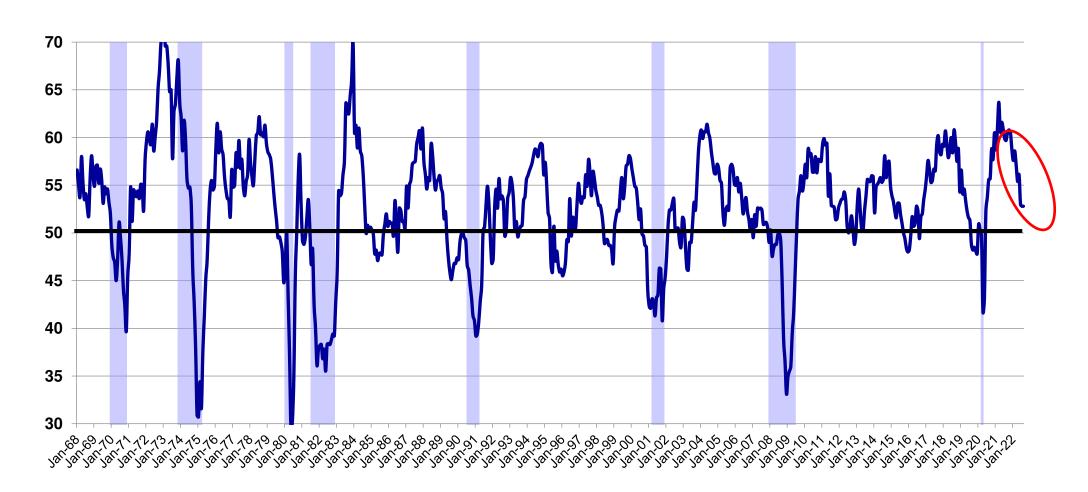
Leading Indicators



ISM's Manufacturing PMI

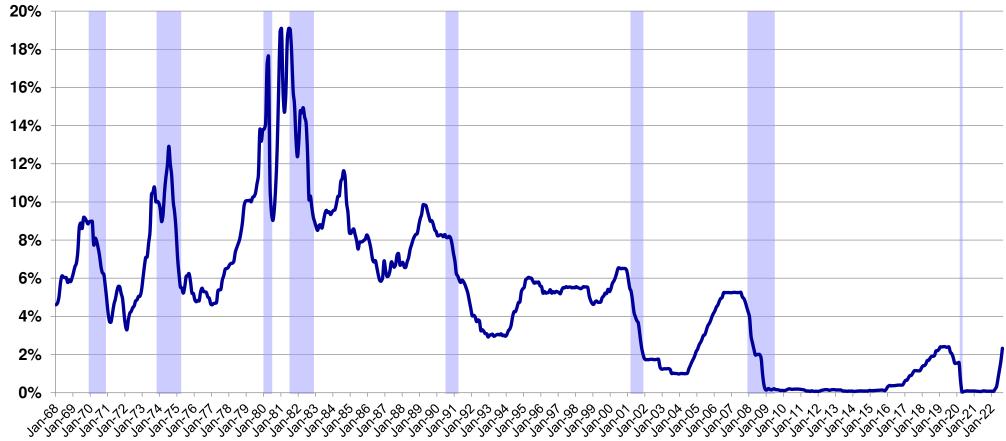
1968 - 2022*

Source: ISM



Federal Funds Effective Rate 1968-2022





Where We Stand?

- In this cycle, housing has taken the brunt of the hit despite the fact that there
 is a significant shortage of housing throughout the country.
- We have never tried to induce a recession when there 11 million unfilled jobs and only 6 million unemployed.
- We have never tried to induce a recession when the federal government created a situation where consumer have \$2.5 trillion dollars more in cash than normal.
- These things combined with supply chain issues will make the economy more difficult to slow than under normal circumstances.
- In addition, current Fed policy is not yet nearly as restrictive as the Fed is making out to be and fiscal policy is still too stimulative.



Real GDP Forecast Blue Chip Economic Indicators

Year	2022	2023
Average	(1.6%)	0.6%
Top 10	1.8%	1.8%
Bottom 10	1.1%	-0.9%

The average annual growth rate between 2010-2019 was 2.3%



Consumers



U.S. Consumer Confidence Index

1978 - 2022*

Source: The Conference Board



How are we doing?

- People are nervous because they see a significant decline in purchasing power.
- They see real wages declining.
- They are pummeled by negative economic headlines everyday.
- They are concerned about housing and stock prices going down.
- Overall, people are nervous. When people are nervous, they pull back.
- The pull back has been muted by high levels of cash and a continued strong job market.

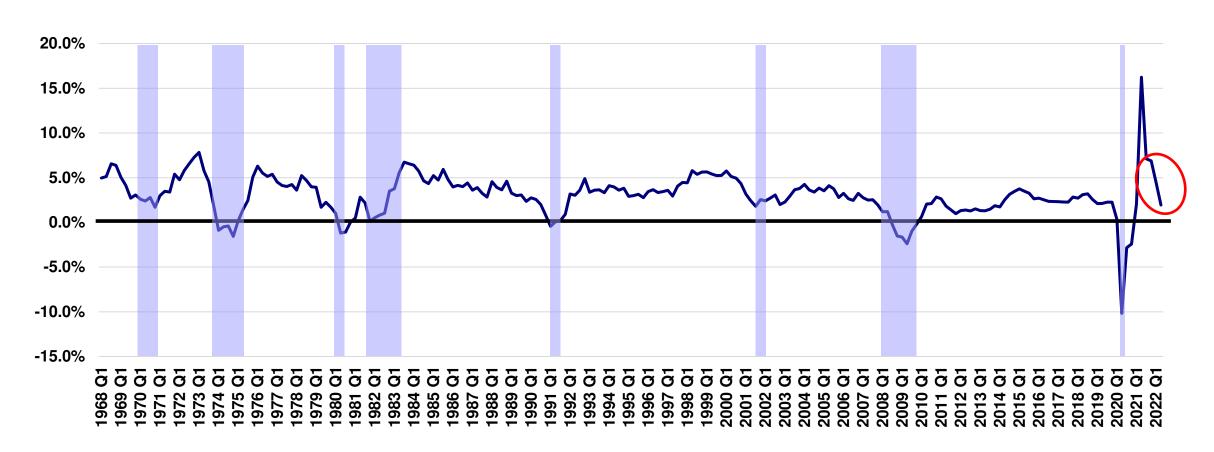


Real Personal Consumption Expenditures % Change Y/Y

1968 - 2022

Source: BEA

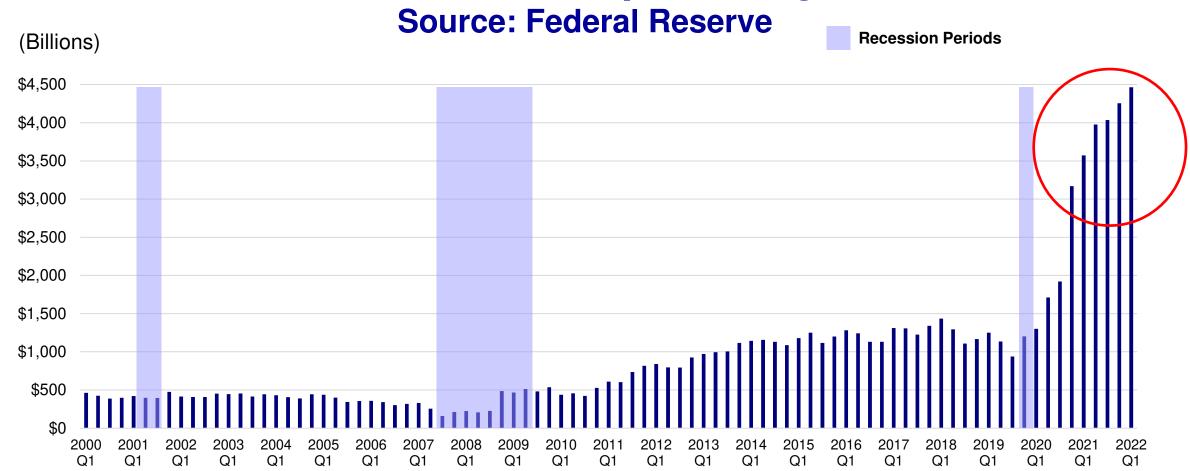
Recession Periods





Includes: Goods and Services

Checkable Deposits and Currencyof Households and Nonprofit Organizations





What will Consumers do with Excess Cash?



- This excess cash will dissipate as the cost of necessities continues to rise.
- As the cash dissipate, consumer will cut back on discretionary spending and non-discretionary spending to extent possible.
- The lower the income, the more your you will be affected.



U.S. Consumer Credit Total Revolving Credit Outstanding

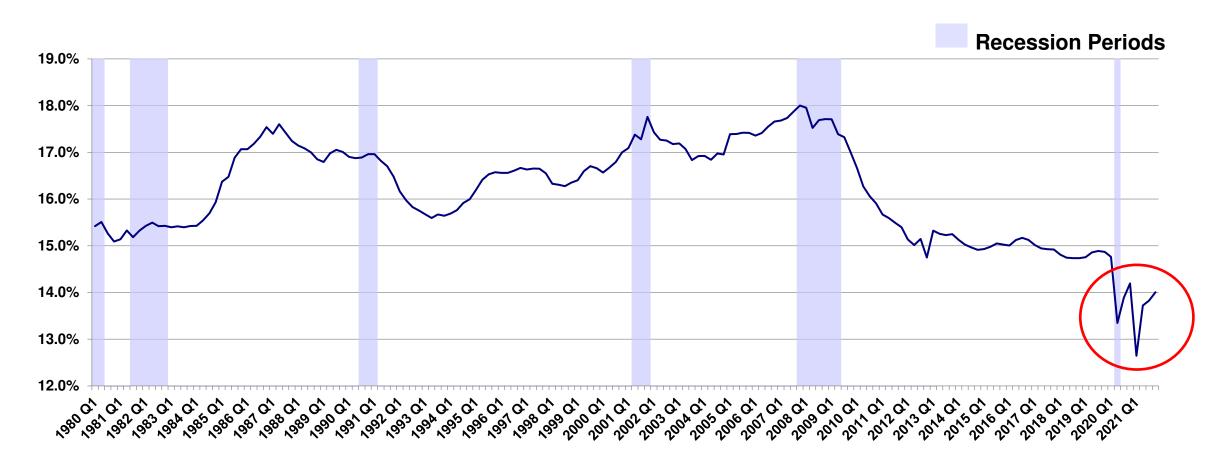
2000 - 2022* **Recession Periods** (billions) Source: U.S. Federal Reserve \$1,200 \$1,100 \$1,000 \$900 \$800 \$700 \$600



Revolving Credit Plans – may be unsecured or secured by collateral and allow a consumer to borrow up to a prearranged limit and repay the debt in one or more installments.

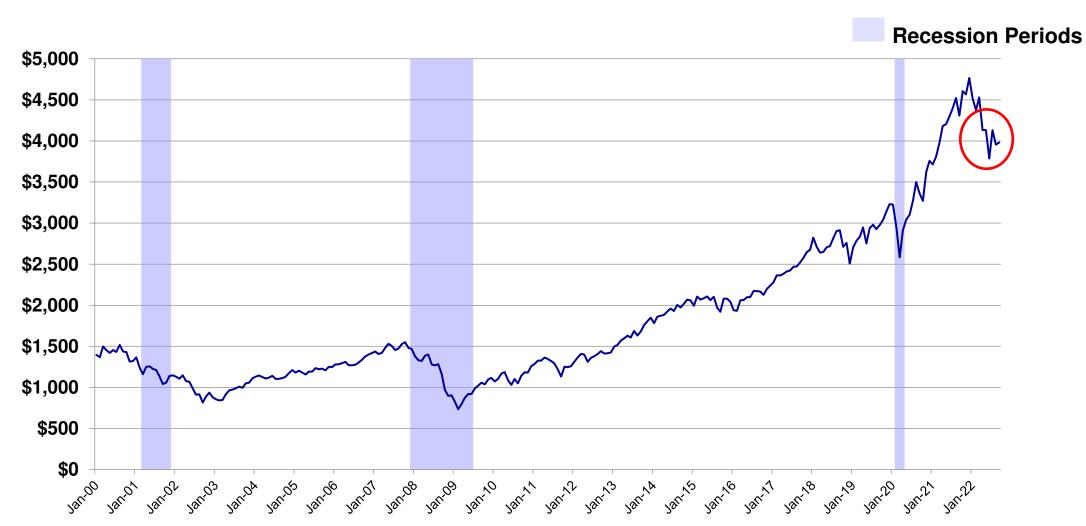
Financial Obligation's Ratio* 1980 – 2022**

Source: Federal Reserve





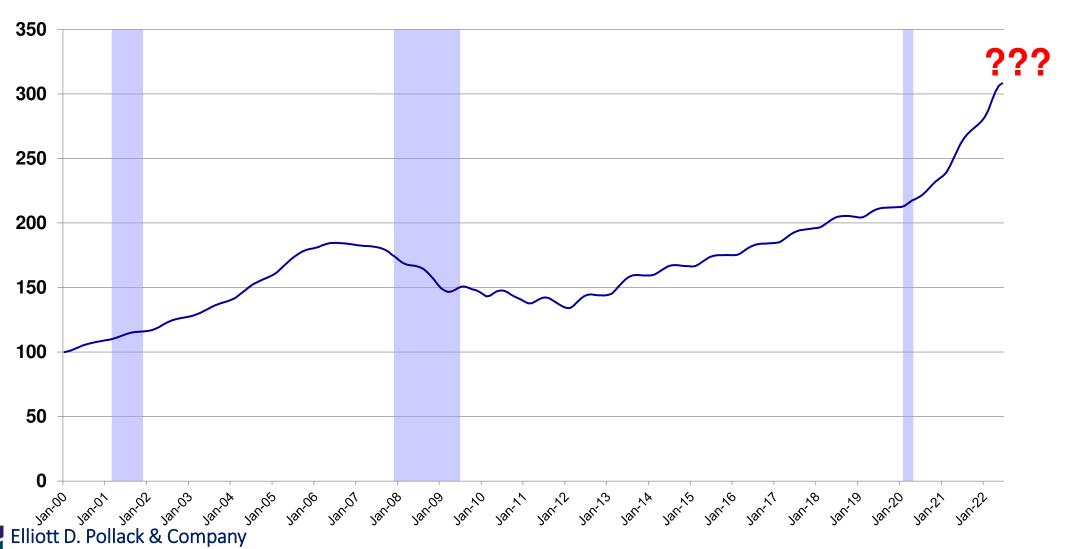
S&P 500 2000 - 2022*





U.S. S&P/Case-Shiller Home Price Indices 2000 – 2022*

Recession Periods



Court, Merritt, Pollack, & Stevenson

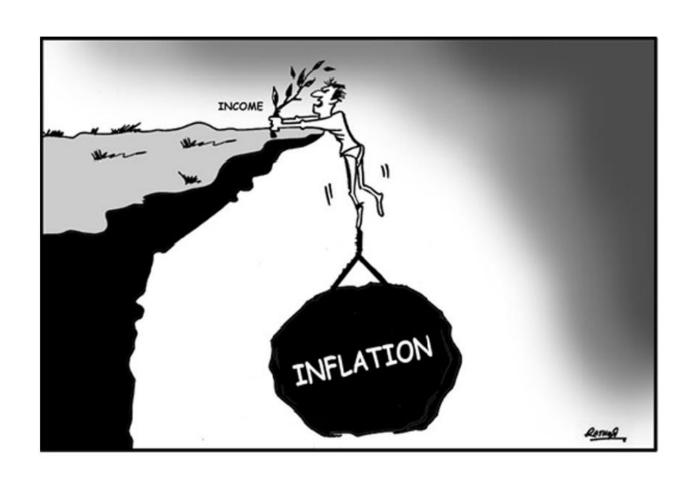
Weighted Overall Wage Growth Tracker, 3-Month Moving Average

1998 - 2022

Source: Sources: Current Population Survey, Bureau of Labor Statistics, and Federal Reserve Bank of Atlanta Calculations.

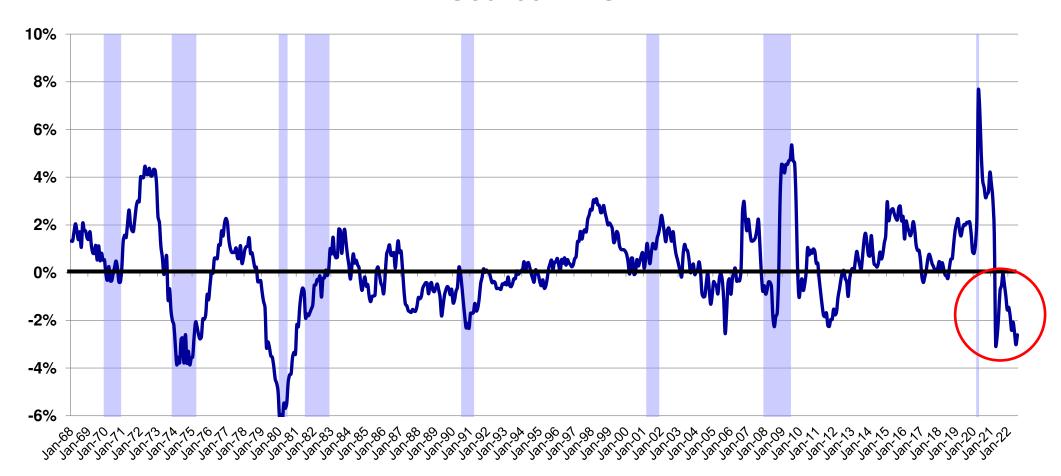






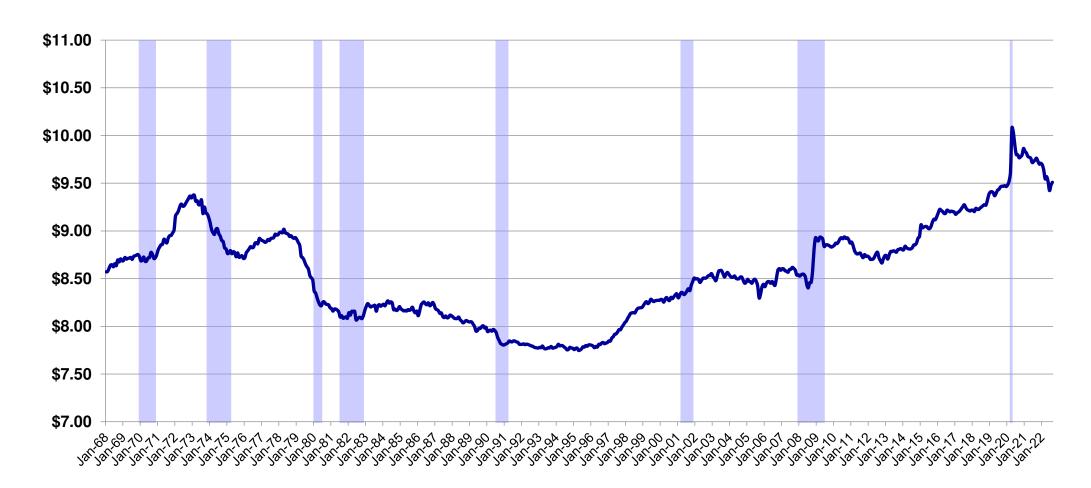
Real Hourly Earnings Growth

% Change Y/Y Source: BLS



Real Hourly Earnings

Source: BLS



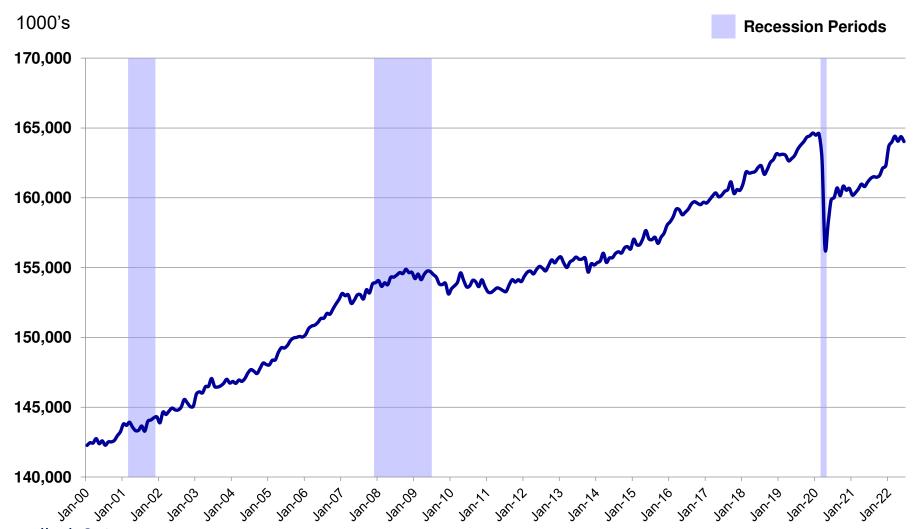
Jobs



We are at the beginning of the disruptions.

Labor Force (S/A)

2000 - 2022*



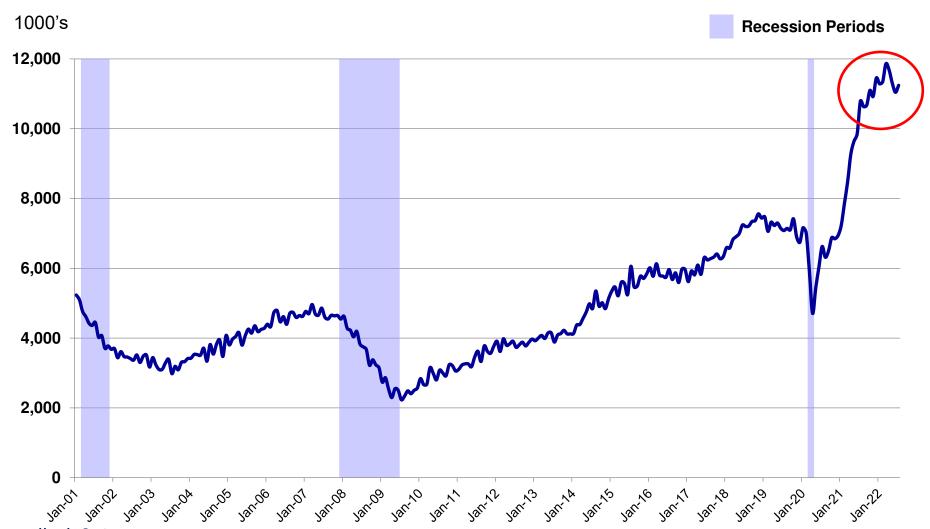






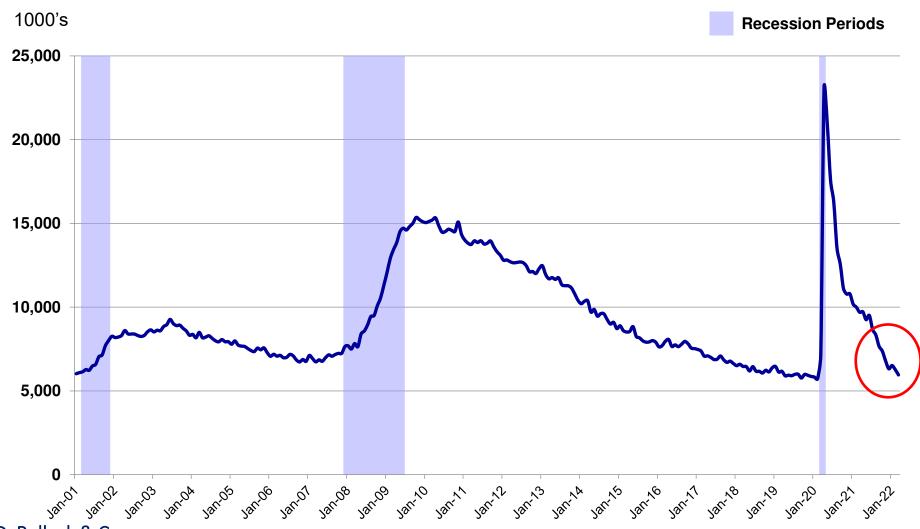
Job Openings

2001 - 2022*



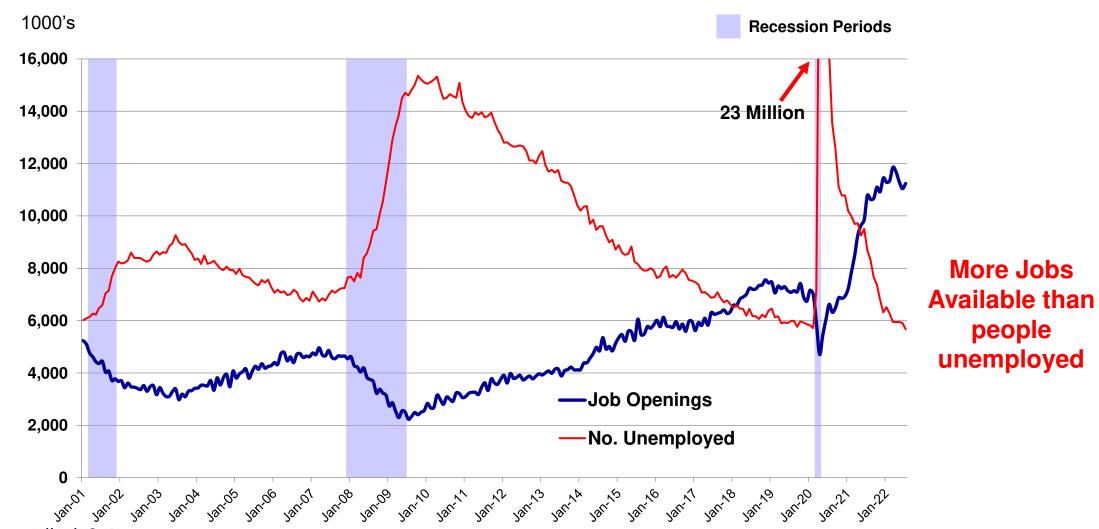
Number of People Unemployment (U-3)

2001 - 2022*



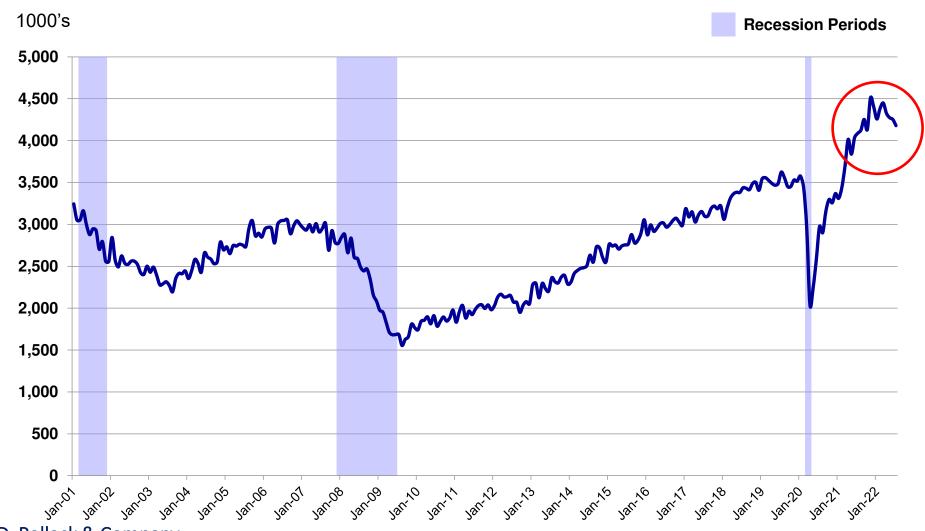
Job Openings and No. Unemployed

2001 - 2022*

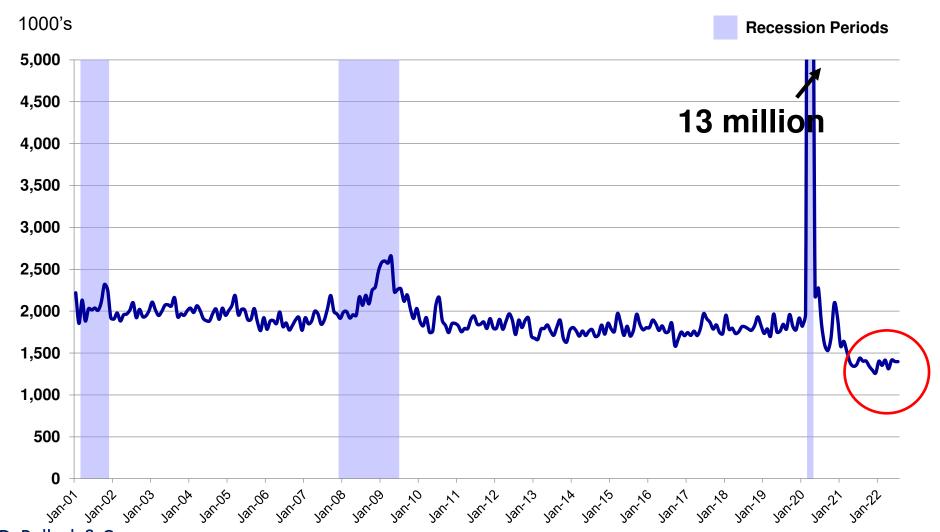


Quits

2001 - 2022*



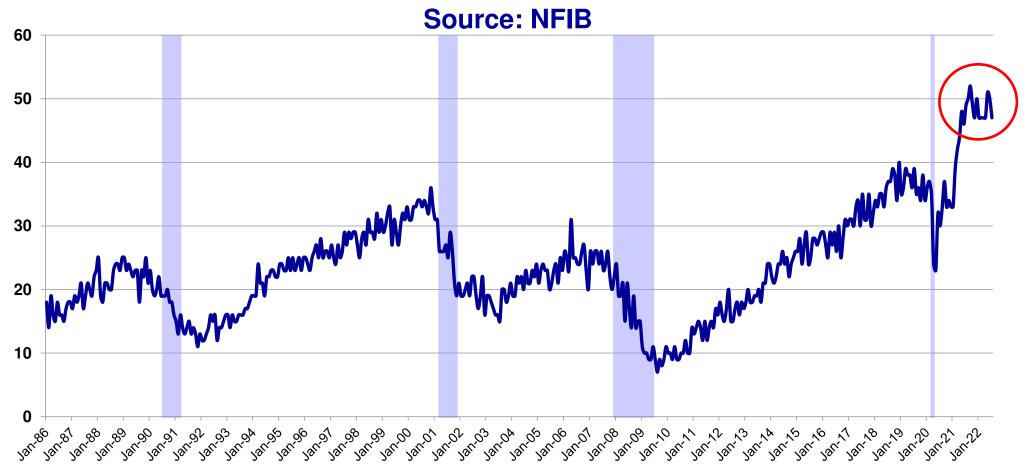
Layoffs 2001 – 2021*



NFIB

Percentage of small businesses with unfilled job openings

1986-2022

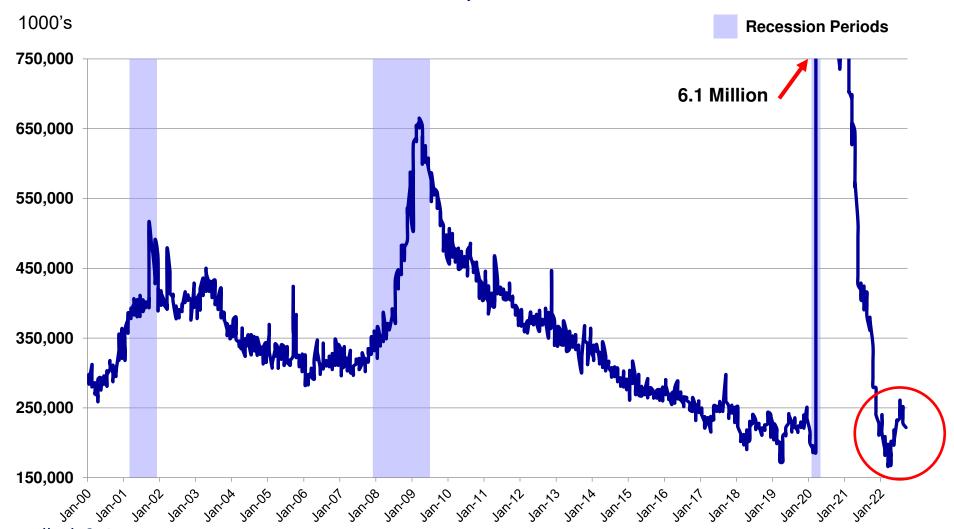




Initial claims

2000 - 2022*

Source: U.S. Department of Labor





This bright employment picture could quickly deteriorate as consumers and business are forced to cut back.



Business



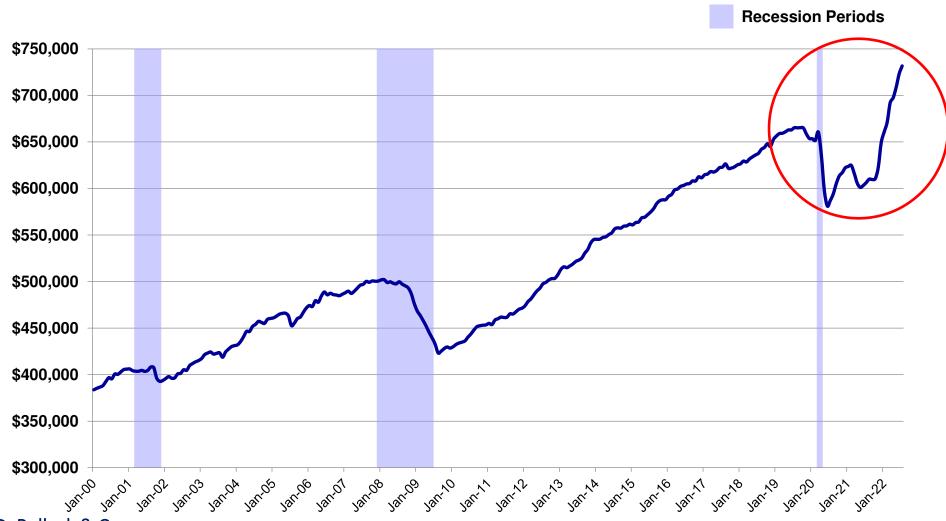
Total Business Inventories

- 6/30/19 \$2.0 trillion dollars
- 6/30/20 \$1.9 trillion dollars
- 6/30/21 \$2.0 trillion dollars
- 6/30/22 \$2.4 trillion dollars



U.S. Retailers Inventories (millions) 2000 – 2022*

Source: U.S. Census Bureau



Monetary Policy



Arthur Burns
Did Not Finish The Job



Paul Volcker Finished the Job



Jerome Powell To-be-determined

Results can vary depending on what the Fed chooses



What's different 70's-80's and Now?

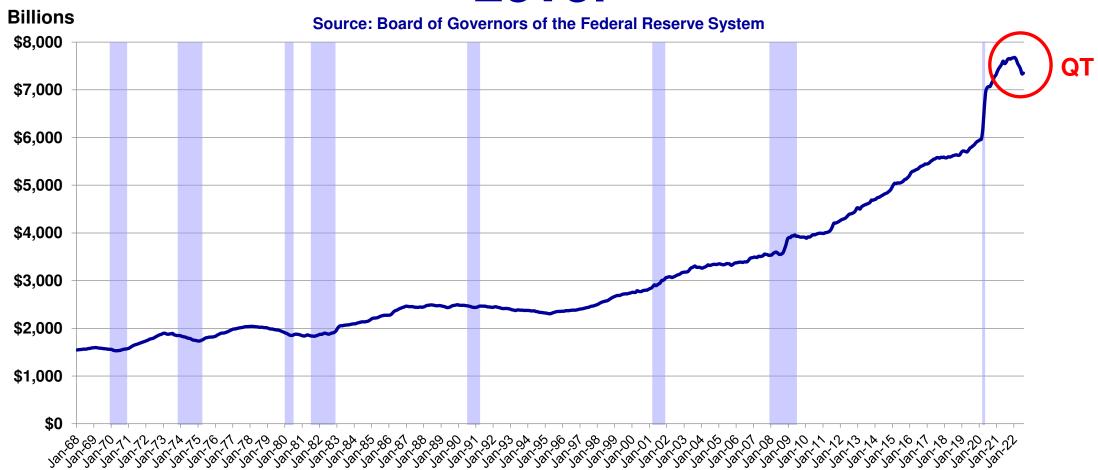
- We have not been in a period of high inflation for forty years.
- In the 1970's, the Fed let inflation get out of control.
- Inflation was high and intermittingly rising (mostly well above 6%) from 1973 through 1982.
- Inflation declined but stayed high by today's standards throughout the 80's.
- Inflation this time around has been high for only the last six quarters.
- Therefore, it was much more ingrained in the economy last time around than this time.
- Therefore, it should be a "quicker" fix.
- Yet, despite the fact that M2 growth has slowed, real interest rates are still at levels that historically are very stimulative and fiscal policy remains too stimulative.
- To have experienced high extended inflation as an adult, you have to be 70 years old today. That's why its unfamiliar to most people.



The Last People at the Fed to Fight Inflation

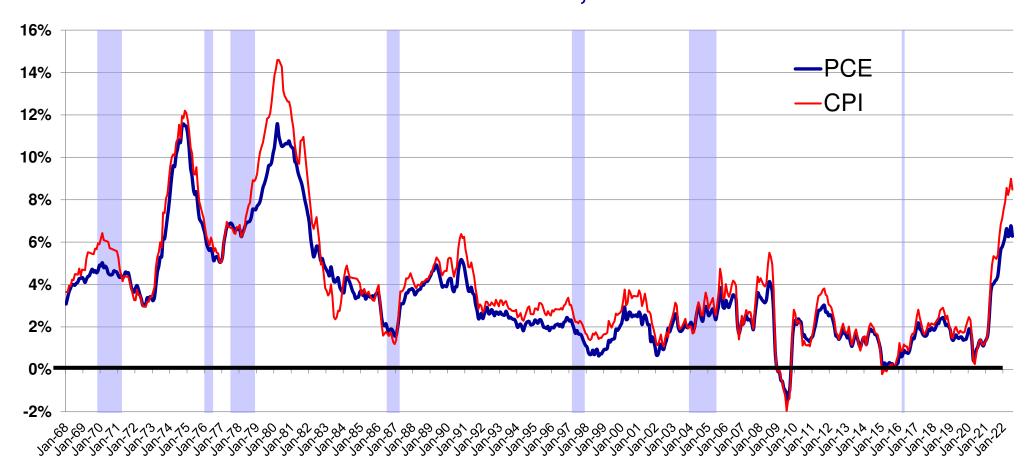


Real M2 Level



PCE and **CPI**

% Change Y/Y Source: BEA; BLS



Core-PCE and Core-CPI

% Change Y/Y Source: BEA; BLS





Miscellaneous Thoughts on Inflation

- In 2012 the Fed chose 2% as the target rate for inflation.
- 2% inflation was the exception not the rule until 1994.
- Is the current rate of inflation overstated?
 - Yes, but determining by how much is difficult.



Core-CPI

% Change Y/Y 1968-2022

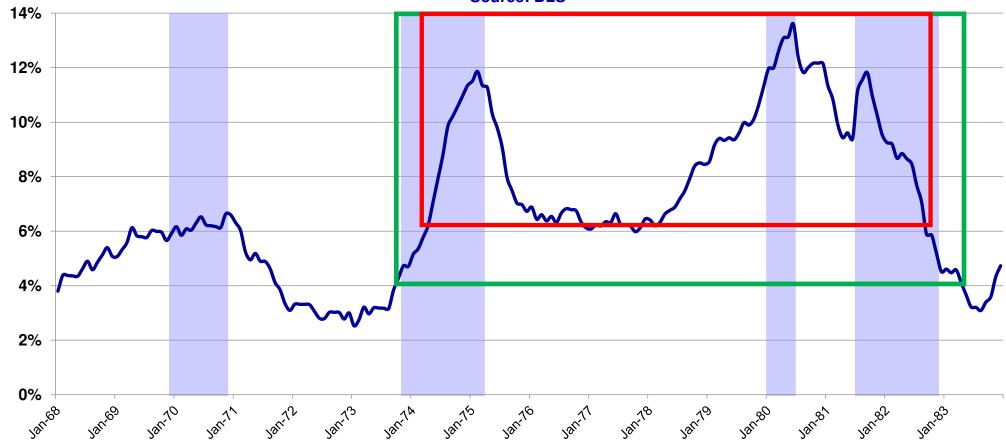
Source: BLS



Core-CPI % Change Y/Y

1968-1983





Core-CPI

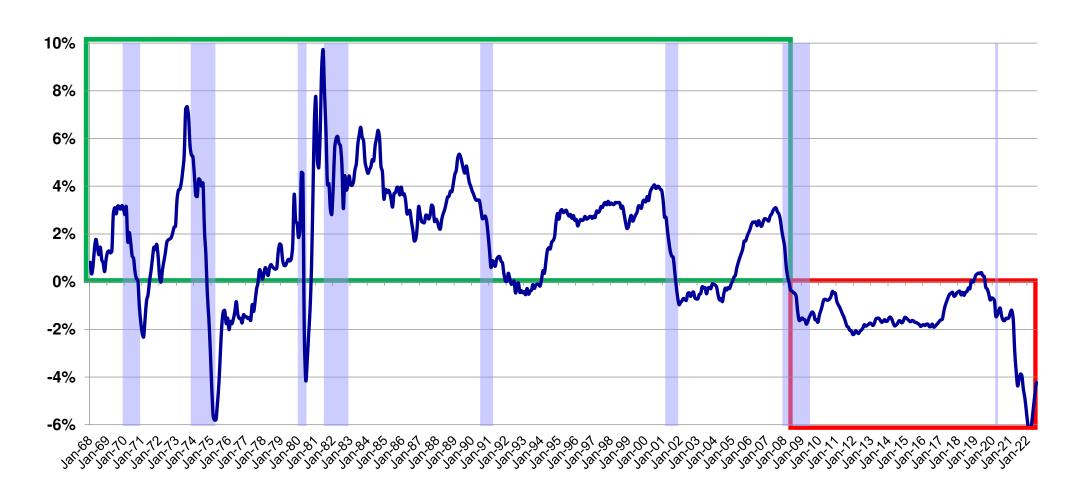
% Change Y/Y

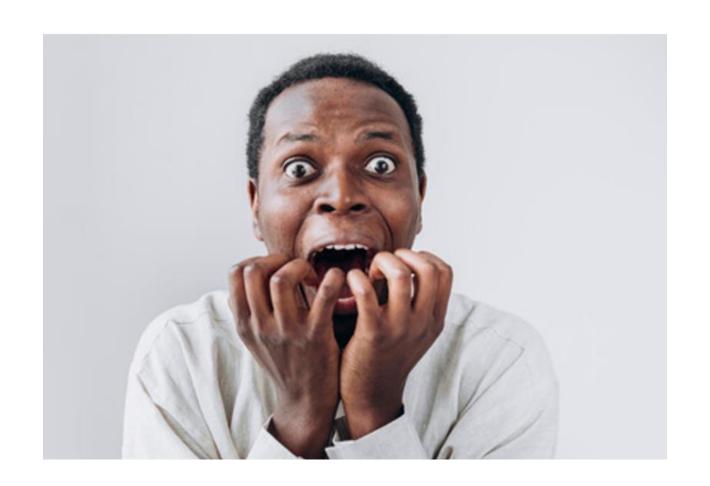
1984-2022



Fed Funds Rate Less Core-CPI

Source: Federal Reserve; BLS







What will the Fed Do?



Current Policy

History suggests that real interest rates as measured by Fed Funds Rate less Core-CPI/Core-PCE have to be considerably higher if they are to correct our current problem.







Negative Interest Rates

- Interest rates are the cost of borrowing.
- Interest rates tend to move in the same direction as inflation but with a lag.
- Higher interest rates are a normal policy response to high and/or rising inflation.
- Low or negative interest rates incentivize lending and borrowing by businesses and consumers.
- High real interest rates incentivize savings and hoarding and, therefore, slow economic activity. Hurdle rates of return have to go up.
- When the Fed wanted to incentivize lending and borrowing to spur economic activity it kept real interest rates low or negative.
- Historically when the Fed wanted to de-incentivize lending and borrowing it kept real interest rates high.

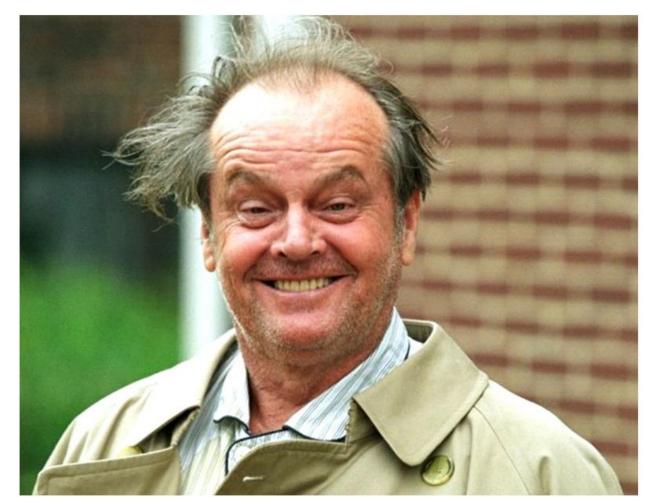


Negative Interest Rates

- The Fed kept real interest rates low for a long time following the Great Recession (2007 on)
 in order to incent economic activity.
- Finally, the economy became stable enough so that real interest rates rose. But, then the Covid economic lockdown occurred and real rates became negative again.
- We are now in a period when the Fed needs to slow economic activity.
- Thus, real interest rates will need to be higher. Indeed, the Fed is likely to continue raising rates in 2022 and into 2023 to curb inflation.
- This suggests that the fed funds rate has a way to go on the upside to get the real fed funds rate to levels historically associated with slowing the economy.
- So, real rates are likely to go higher. PROBABLY MUCH HIGHER.



Have a nice day!



What happens when the Fed tightens?



Change in Fed's Policy

Quantitative Easing (QE)

- The Fed purchases securities from the open market to reduce interest rates and increase money supply.
- This provides banks with more liquidity and encourages lending and investment.

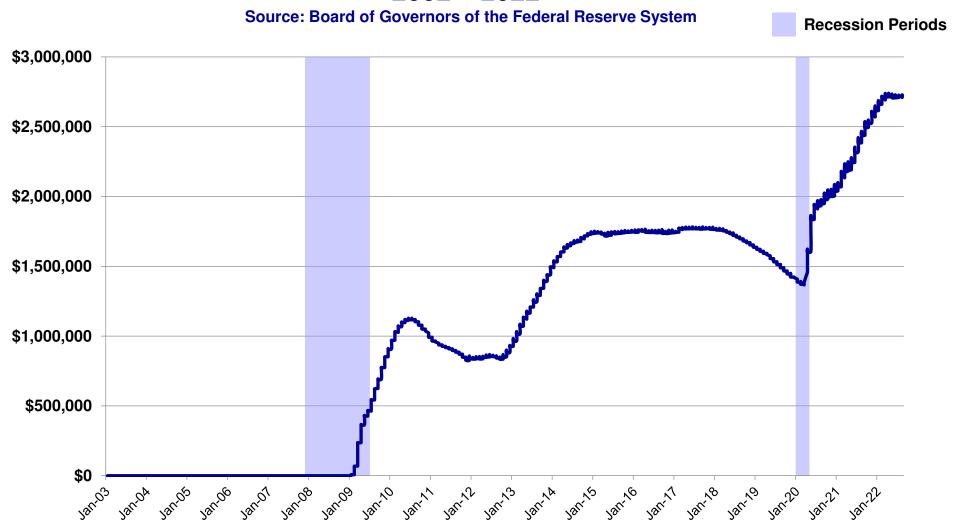
Quantitative Tightening (QT)

 The Fed shrinks its reserves by selling treasuries, other instruments or by letting treasuries mature thereby removing liquidity or money from financial markets.



Securities Held Outright: Mortgage-Backed Securities: Wednesday Level

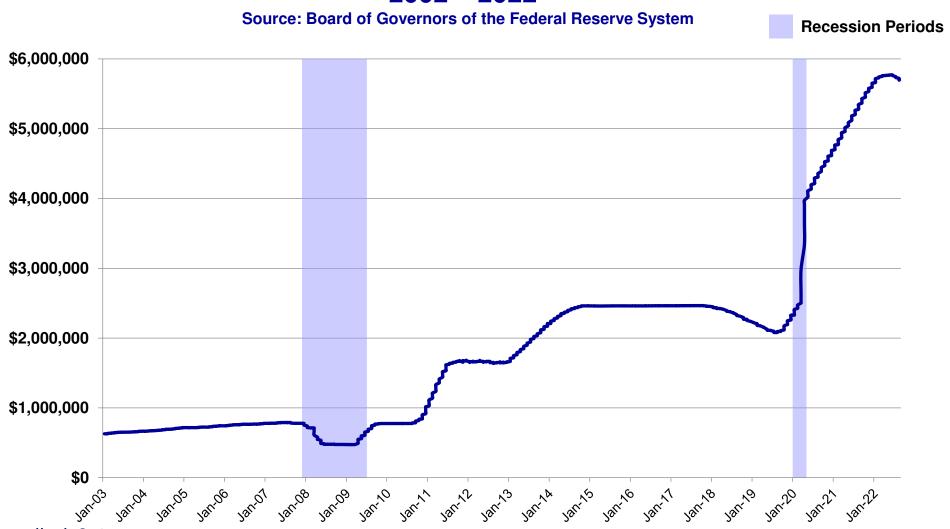
2002 - 2022*





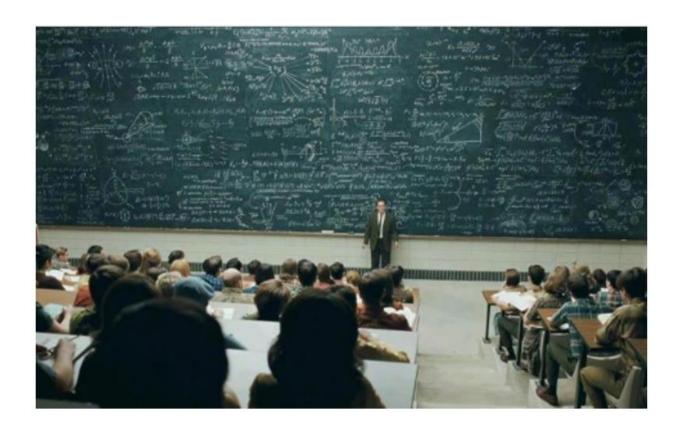
Securities Held Outright: U.S. Treasury Securities Wednesday Level

2002 - 2022*





Recent Discussion on Fed's Policy



Quantitative Tightening

- The Fed just doubled the pace of Treasuries runoff to \$60 bil per month and mortgage backed securities run of is at \$35 bil per month.
- Will it work? It will work until it doesn't.
- Will a liquidity issue occur as the Fed tightens? No one knows....including the Fed.
- We are in uncharted waters. This creates significant risk.

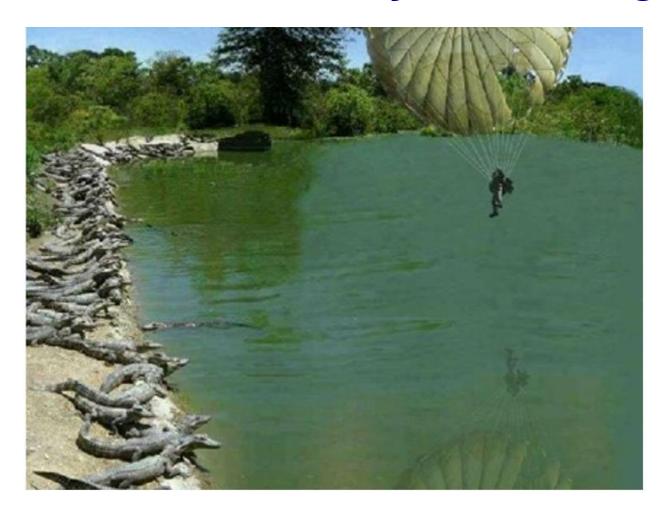


Quantitative Tightening

- The last 3 Fed Chairs did an excellent job in preventing any major financial disasters. 2008 and 2020 could have turned out a lot worse than they did.
- The Fed has now gone from a long period of QE to a period of QT.
- So, now the Fed is doing two things at once:
- One that it hasn't done to the extent necessary in 40 years. (raising rates to slow the rate of inflation)
- The other has only been done in a limited basis. (significant quantitative tightening)



What Can Possibly Go Wrong?



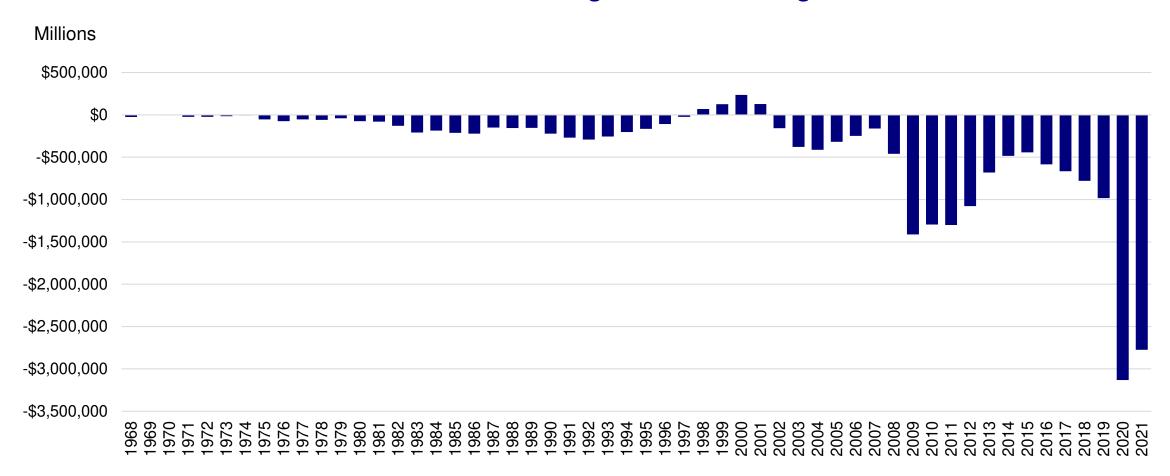
Fiscal Policy is Counter Productive

- Incentives matter.
- Increased taxes and tougher regulation will clearly result in slower longterm growth.
- President Biden and congress have approved the student-loan forgiveness program and the Inflation Reduction Act. Regardless of how you feel about those programs, they are design to expand consumer's spending power. Thus, the programs increase demand.
- The increase in demand comes at a time the Fed is trying to slow demand to reduce upward pressure on prices.
- These and other moves by the Biden administration make it tougher for the Fed to accomplish its goal.



FY Federal Surplus or Deficit [-]

U.S. Office of Management and Budget







Housing



You seeing what I am seeing?



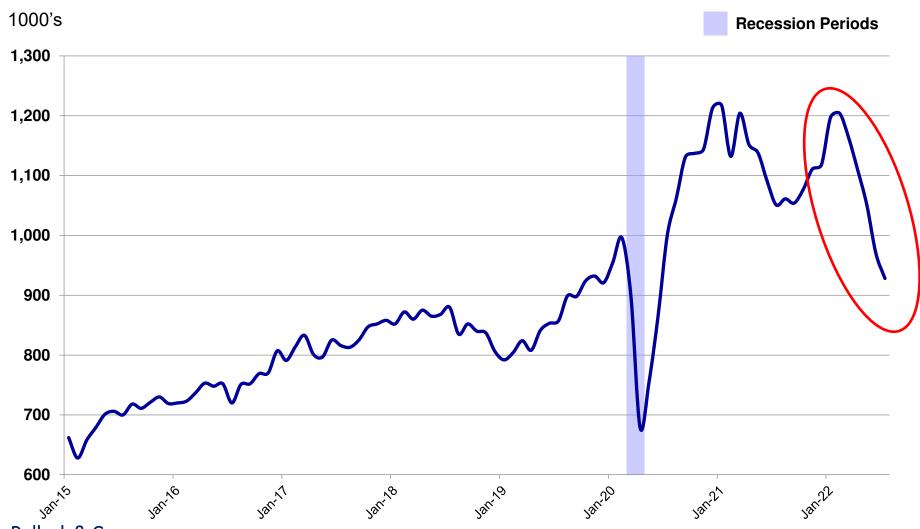
How the Fed's changes have affected housing?



Single Family Permits (SAAR)

2015 - 2022*

Source: U.S. Bureau of Labor Statistics

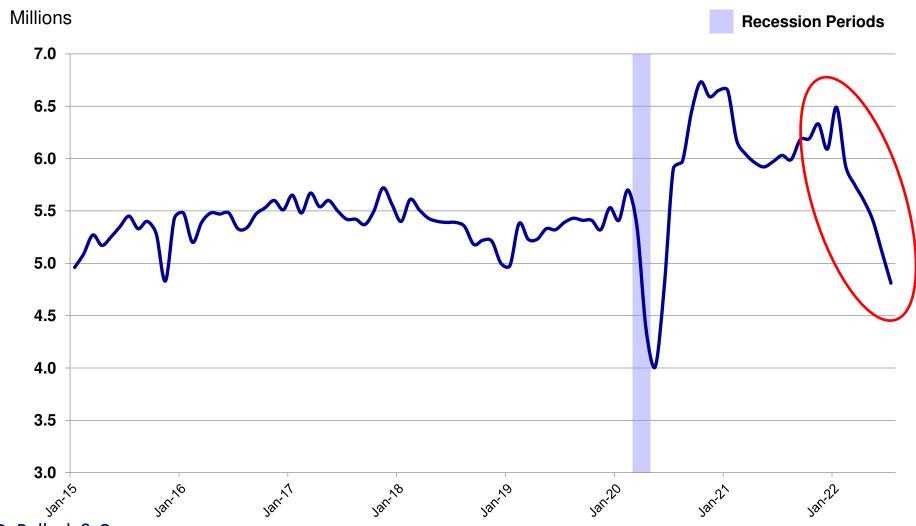




Existing Home Sales (SAAR)

2015 - 2022*

Source: NAR

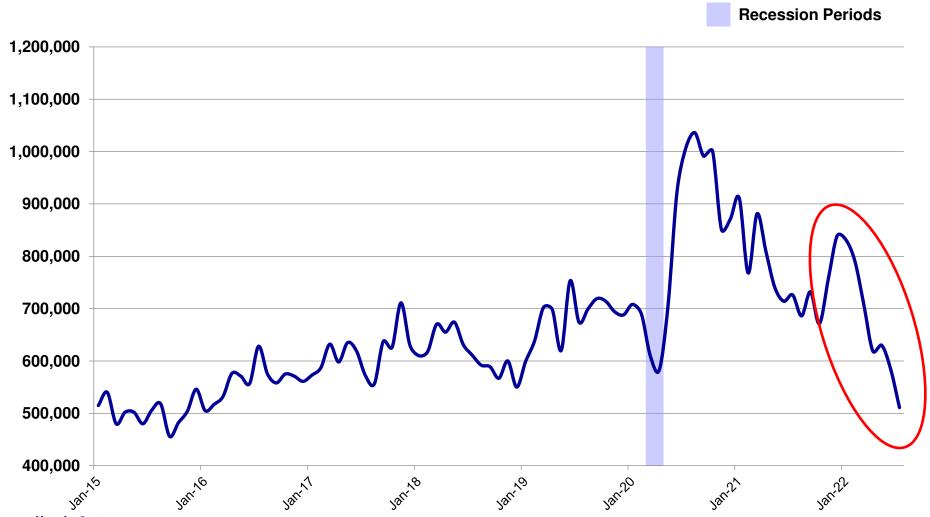




New Home Sales (SAAR)

2015 - 2022*

Source: U.S. Census Bureau

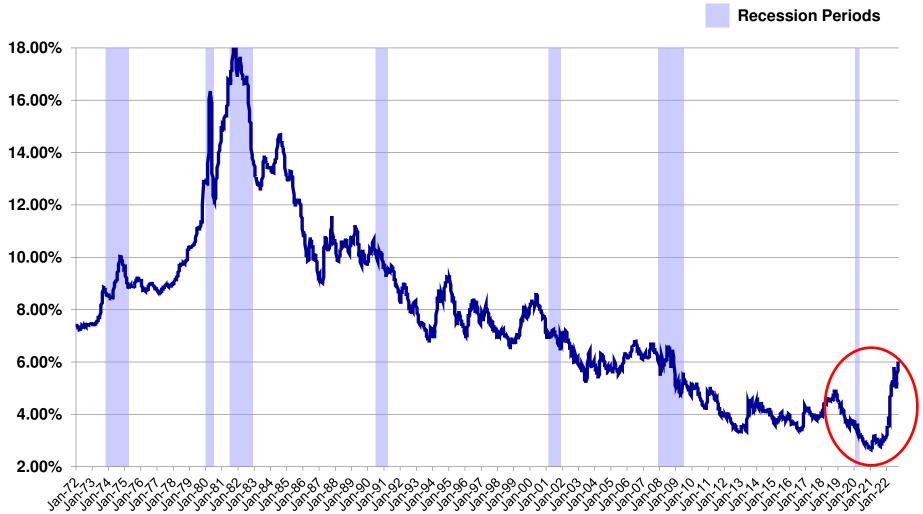




30-year Mortgage

1972 - 2022*

Source: Freddie





Mortgage Payment Change

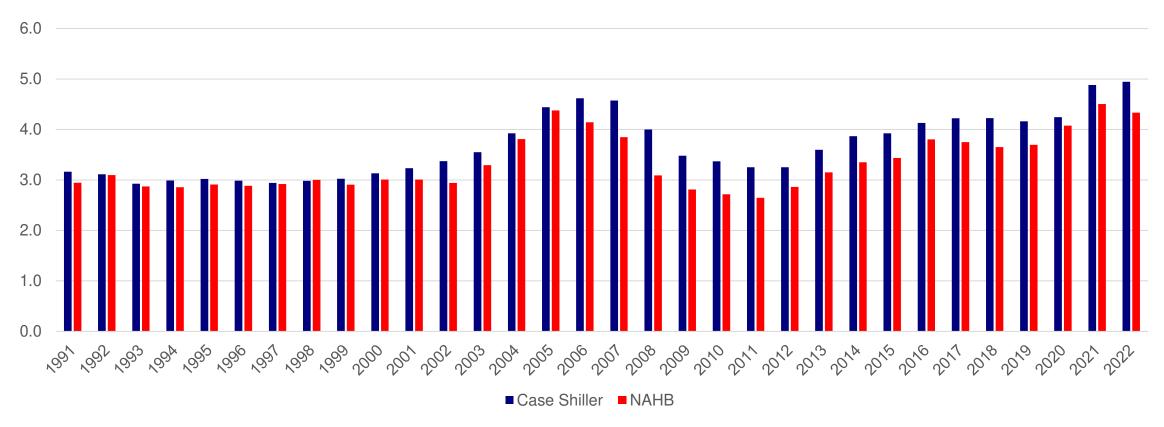
Source: Freddie; U.S. Census; NAR 10% down payment

	July 2010	July 2015	July 2020	July 2021	July 2022
Median Sales Price - New	\$212,100	\$292,300	\$329,800	\$406,000	\$439,400
Median Sales Price - Existing	\$177,800	\$231,800	\$305,600	\$364,600	\$403,800
Mortgage Rate Only	4.56%	4.05%	3.02%	2.87%	5.41%
Interest & Principal - New	\$974	\$1,264	\$1,255	\$1,515	\$2,223
Interest & Principal - Existing	\$817	\$1,002	\$1,163	\$1,361	\$2,043

The monthly payment for the same house increased 40% for new home and 50% for an existing home between July 2021 and July 2022



U.S. Ratio of Housing Price to Family Income



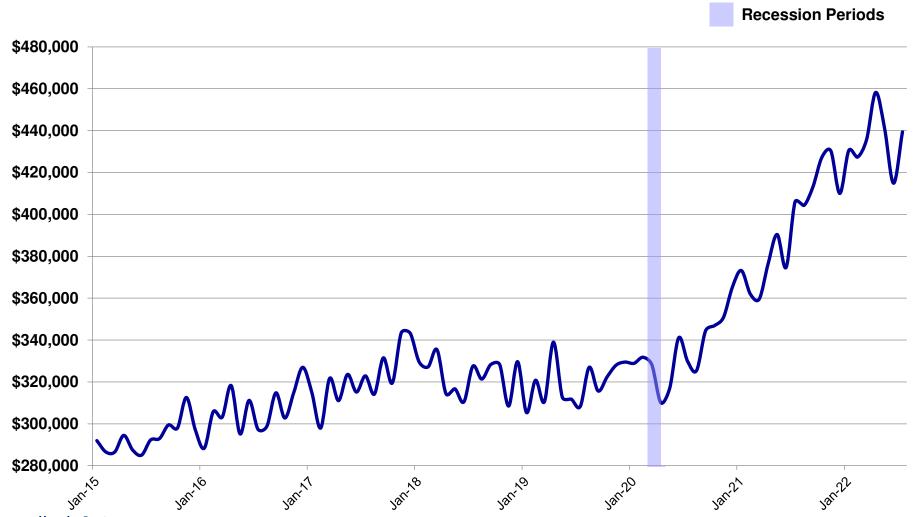
HUD: annual median family income estimates



New Home Median Sales Price

2015 - 2022*

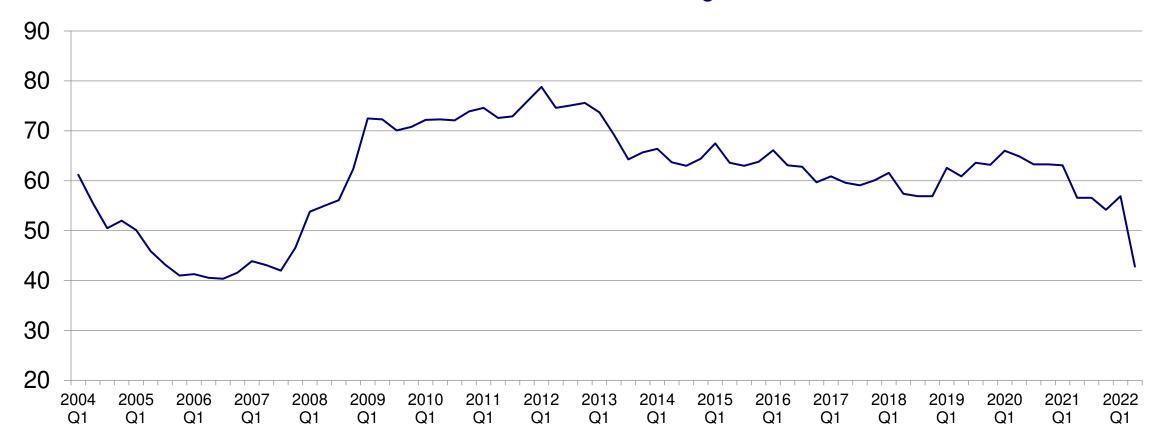
Source: U.S. Census





Housing Opportunity Index 2004-2022*

All tracked transactions
Source: NAHB/Wells Fargo

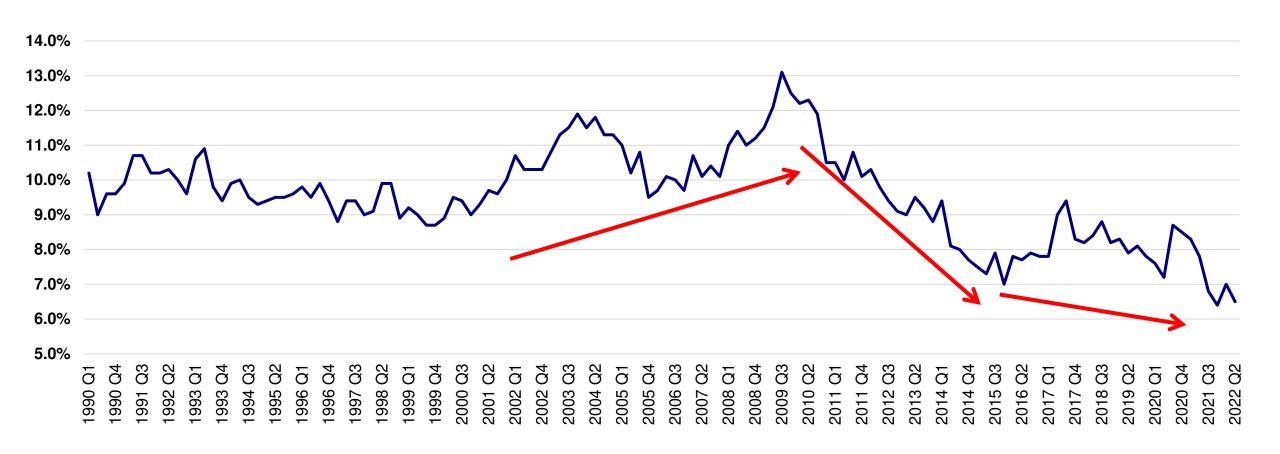






U.S. Rental Multi-family Vacancy Rate

Source: U.S. Census Bureau





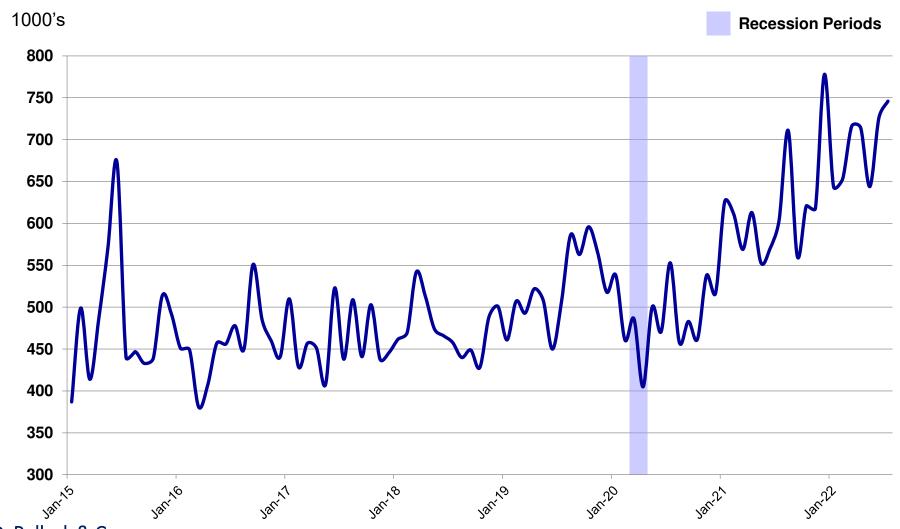
Good News for Apartments



Multi-Family Permits (SAAR)

2015 - 2022*

Source: U.S. Bureau of Labor Statistics





Are the Lights Going out?



Summary

- Consumers are getting nervous despite lots of cash and a strong job market. The nervousness comes from the decline of real incomes and inflation in the price of necessities.
- Businesses are in good shape but will affected by the slowdown, interest sensitive sectors and a tougher Fed policy.
- Housing demand will take the brunt of the hit delivered by the Fed.
- Fed is in uncharted waters
- Fiscal policy is still stimulative.
- The risks of the Fed quitting too early is there. The result would be very negative
- Overall, it could be a tough year. But dealing with inflation now beats all alternatives.



Fixing the Supply Chain, Fixes Inflation

- Not entirely.
- The supply chain has suffered repeated supply shocks. COVID, COVID
 waves, Chinese factories shutdowns (goods), Russian Invasion (agricultural
 goods, gas and oil).
- Consumer demand remained strong in part due to fiscal and monetary policies.
- The inability of producers to meet demand due labor force shortages has led to a bidding war for employees, driving up wages.
- What is so worrisome is that inflation has gotten into wage demands. This
 makes things more difficult.



It's More Than Just Gravel



Overall Conclusions:

- The extent of the malaise we are now in will be determined by Fed policy and hopefully better fiscal policy.
- Expect the Fed to raise rates aggressively.
- The likelihood of a recession is high. Probably in 2023.
- If the Fed stays the course and deals with inflation now, the outlook for the economy becomes considerably better than if the Fed backs down and has to face the problem again later.
- Inflation is being dealt after 6 quarters of high inflation



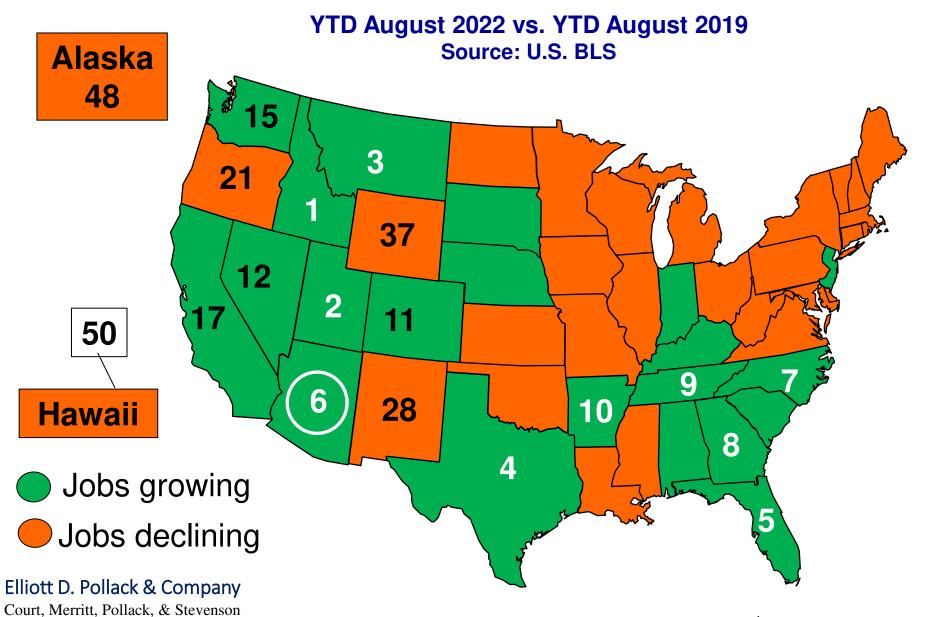




State of Arizona



Job Growth 2022 versus 2019



Greater Phoenix Employment Ranking

 When comparing Y-T-D 2022 versus Y-T-D 2019 Greater Phoenix is sixth.

	YTD	YTD		
Metro	2022	2019	Growth	Rank
Austin-Round Rock	1,109.0	1,228.6	10.8%	1
Dallas-Fort Worth-Arlington	3,759.2	4,063.8	8.1%	2
Riverside-San Bernardino-Ontario	1,536.8	1,641.8	6.8%	3
Nashville-DavidsonMurfreesboroFranklin	1,038.3	1,102.8	6.2%	4
Tampa-St. Petersburg-Clearw ater	1,375.7	1,451.6	5.5%	5
Phoenix-Mesa-Scottsdale	2,156.1	2,271.1	5.3%	6
Charlotte-Concord-Gastonia	1,230.2	1,287.1	4.6%	7
Atlanta-Sandy Springs-Roswell	2,835.6	2,952.1	4.1%	8
San Antonio-New Braunfels	1,071.9	1,101.9	2.8%	9
SacramentoRosevilleArden-Arcade	1,017.1	1,043.3	2.6%	10

Source: Bureau of Labor Statistics

Note: Metro areas with over 1,000,000 jobs

YTD through August



Jobs Recovered

(thousands)
Source: BLS; AOEO

Area	Jobs Lost Feb-20 to Apr-20	Jobs Recovered Apr-20 to Current*	% of Jobs Recovered
U.S.	-21,991.0	22,231.0	101.1%
Arizona	-338.7	433.0	127.8%
Greater Phoenix	-249.7	342.0	137.0%

*Note: Revised U.S. data through August; Data for Arizona and Greater Phoenix through August



Arizona & Greater Phoenix

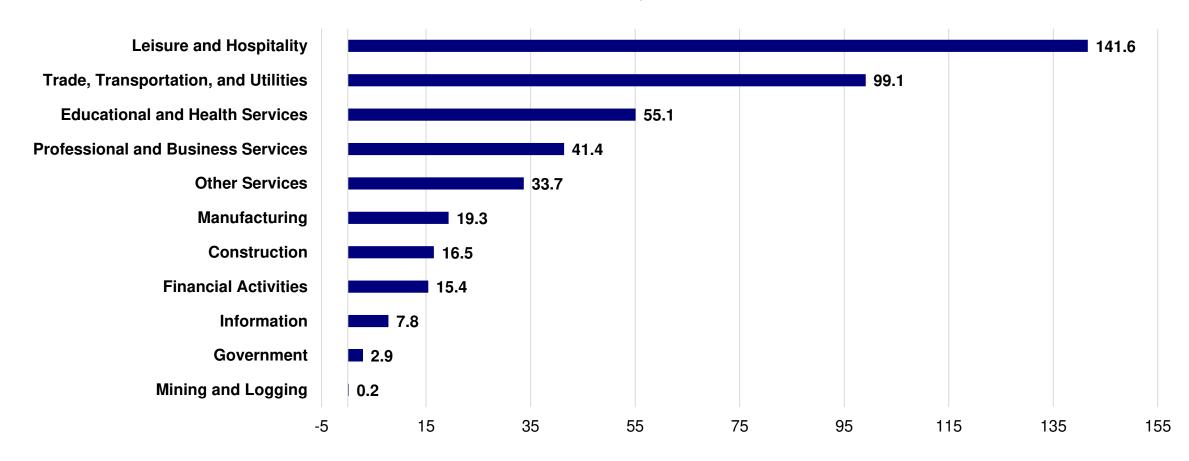
- Most of the growth is in Greater Phoenix
- Strong job growth
- Economic development successes (semiconductors, electrical car manufactures and suppliers)
- Strong industrial growth
- Single family housing is under lots of pressure.
- Rental housing still positive.
- Continued but slower population growth



Arizona

Jobs Regained/Lost (Apr-20 to Aug-22)

Source: BLS; OEOA

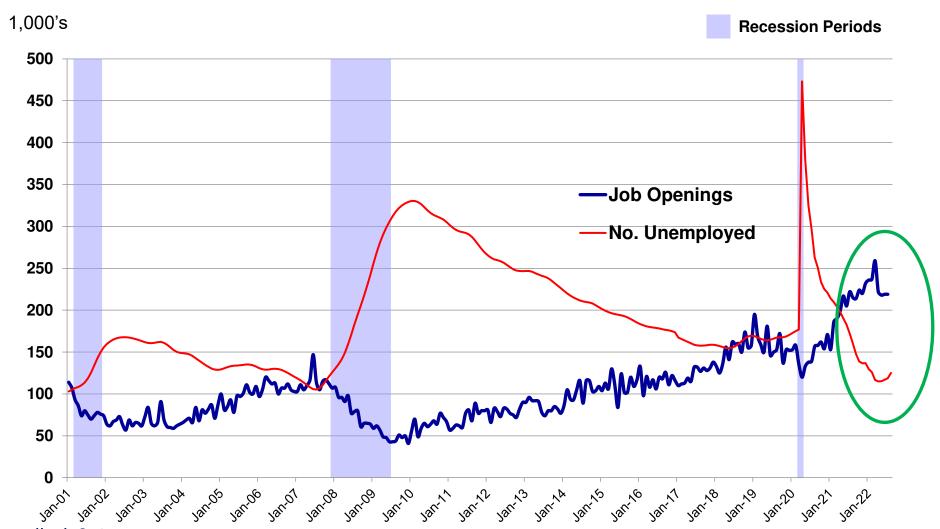




Arizona Job Openings and No. Unemployed

2001 - 2022*

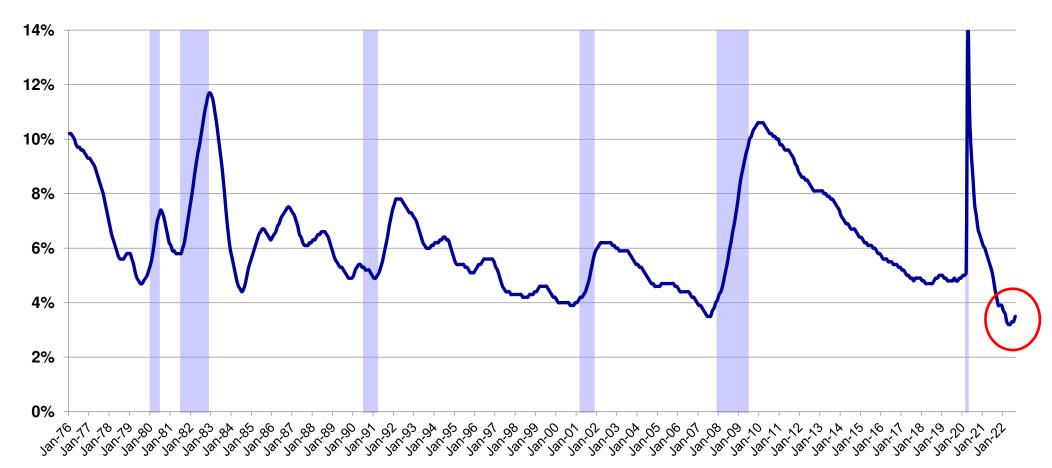
Source: U.S. Bureau of Labor Statistics



Arizona Unemployment Rate

1976-2022

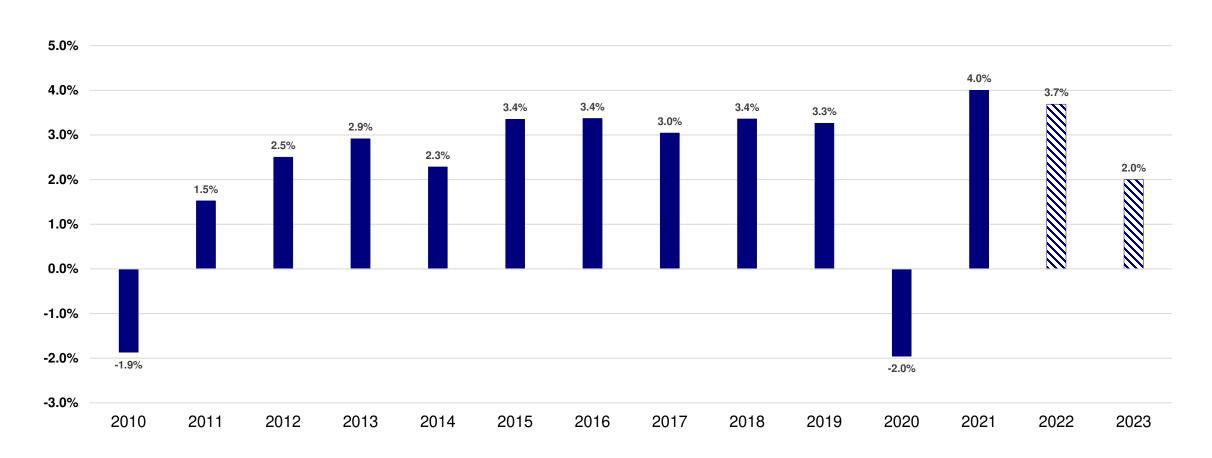
Source: BLS; AOEO



Greater Phoenix

Employment

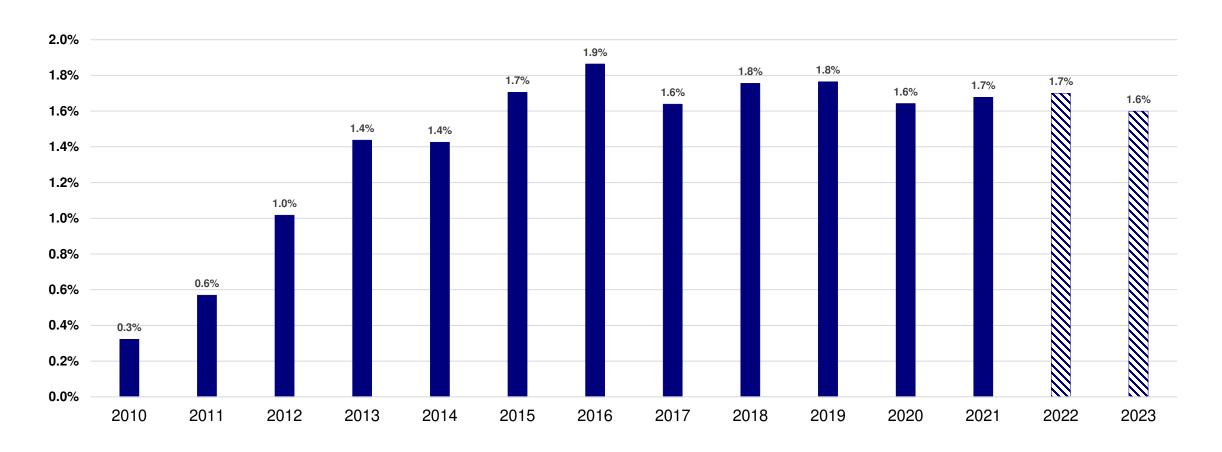
Source: AOEO; EDPCo



Greater Phoenix

Population

Source: AOEO; EDPCo



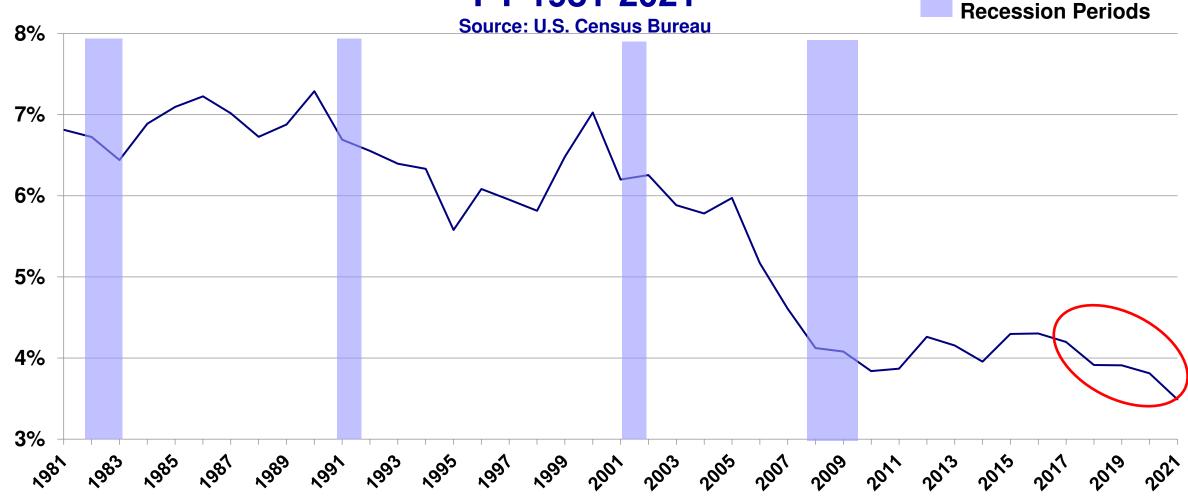
One-way 26-Ft. Truck Rental Rates Source: Uhaul.com

From	То	U-Haul Cost
Los Angeles	Phoenix	\$1,223
Phoenix	Los Angeles	\$249
San Francisco	Phoenix	\$2,500
Phoenix	San Francisco	\$374

Arizona ranked 5th in U-Haul's 2021 Growth States



Total Movers as a % of Total U.S. Population FY 1981-2021

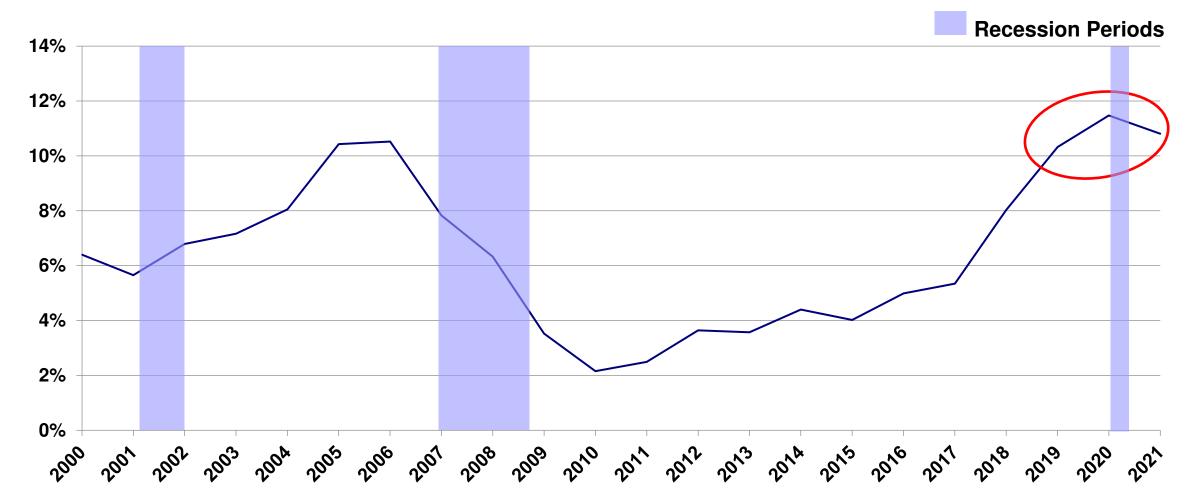




Note: Includes all movers except movers within same county

Arizona Capture Rate

Source: U.S. Census Bureau

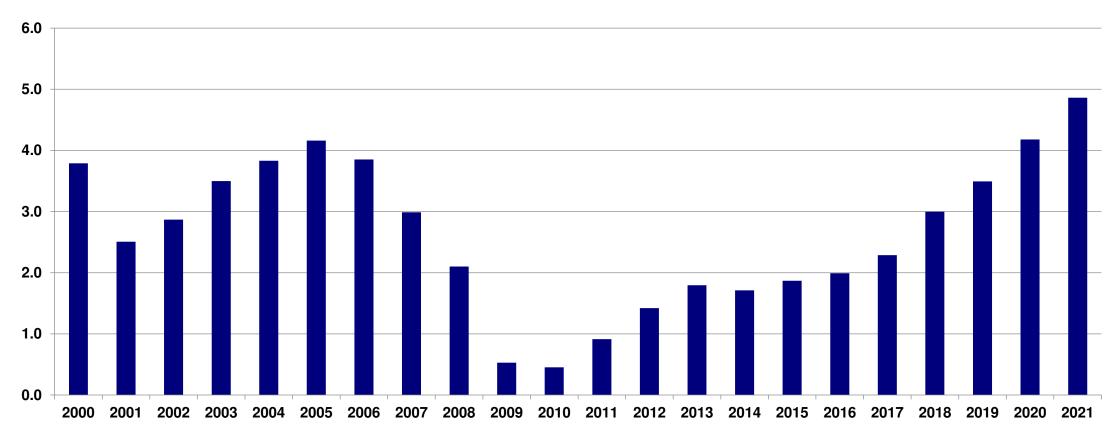




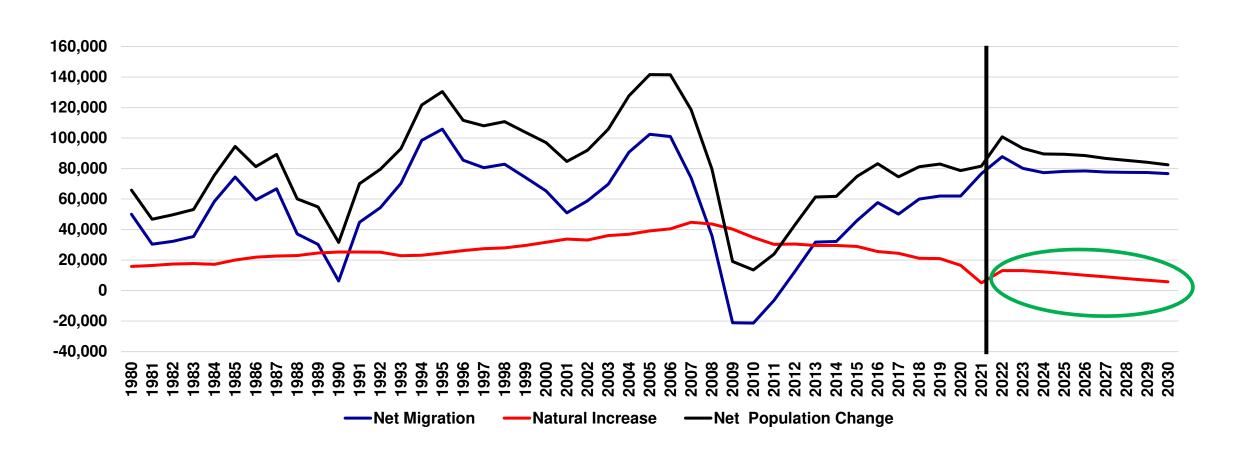
Note: Does not include in-state movers; Net migration numbers.

Population: Greater Phoenix to U.S. Outgrowing the U.S. 2000-2021

Source: U.S. Census Bureau

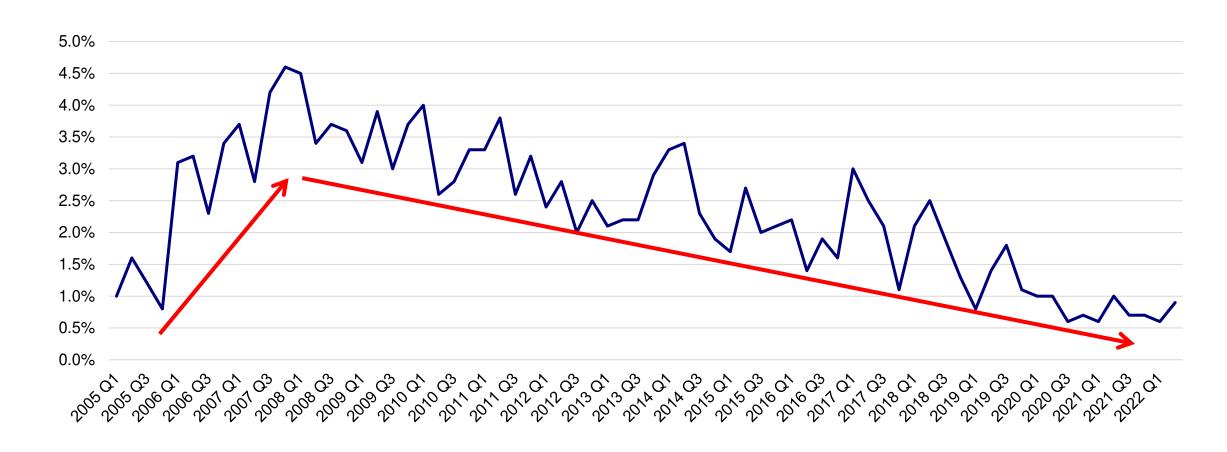


Net Migration and Natural Increase Source: AZDHS; UofA Forecasting Project



AZ Homeowner Vacancy Rate

Source: U.S. Census Bureau

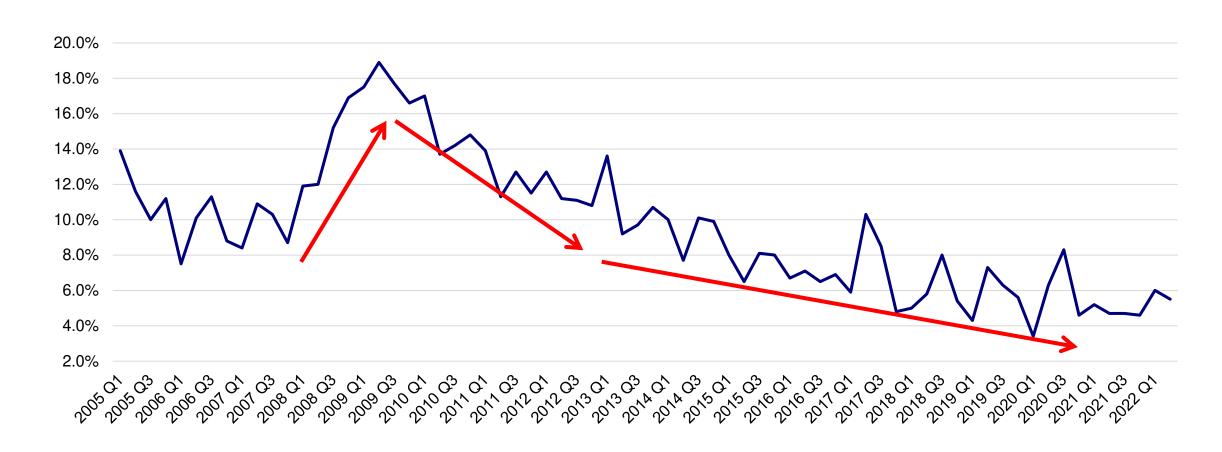




The homeowner vacancy rate is calculated as the ratio of vacant year-round units for sale to the sum of owner-occupied units, vacant year-round units sold but awaiting occupancy, and vacant year-round units for sale.

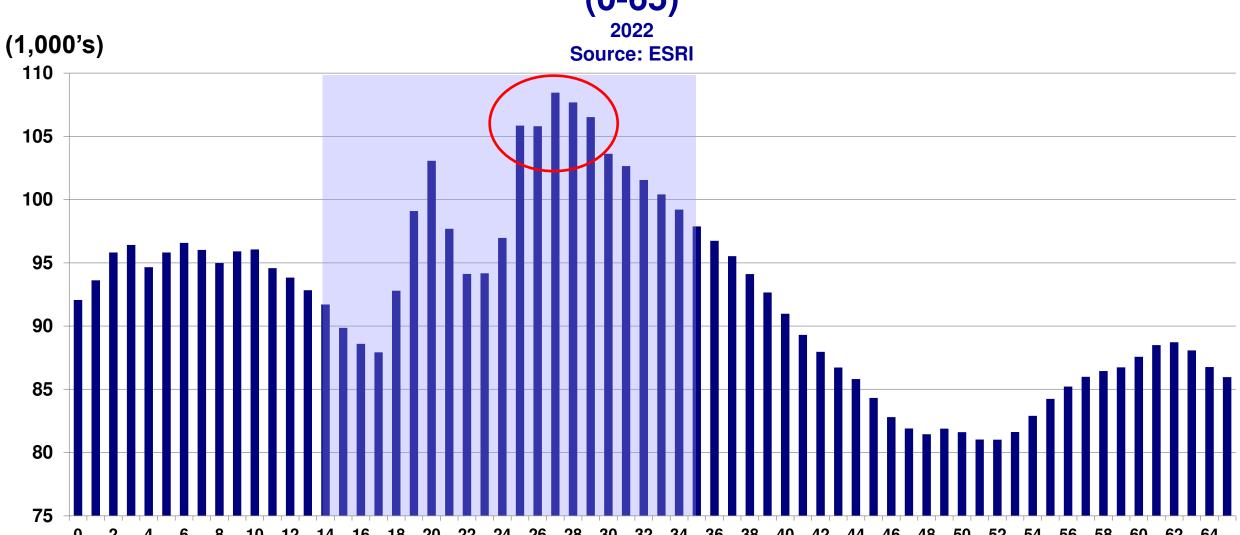
AZ Rental Vacancy Rate

Source: U.S. Census Bureau





Arizona Population by Age (0-65)





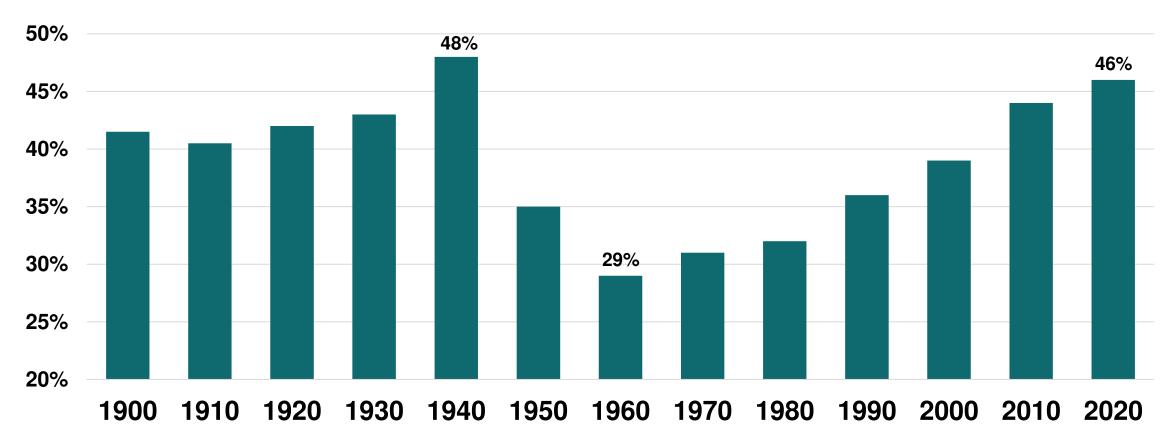
Arizona Homeownership Rates by Age Group

Source: 2020 American Community Survey 5-Year Estimates

Householder Age	% of Total Occupied
15 to 24 years	15.0%
25 to 34 years	49.8%
35 to 44 years	58.1%
45 to 54 years	67.3%
55 to 64 years	76.1%
65 to 74 years	82.4%
75 to 84 years	84.0%
85 years and over	73.9%
Total	65.3%

Adults Living with a Parent 18-to-29-year-olds

Source: U.S. Census Bureau

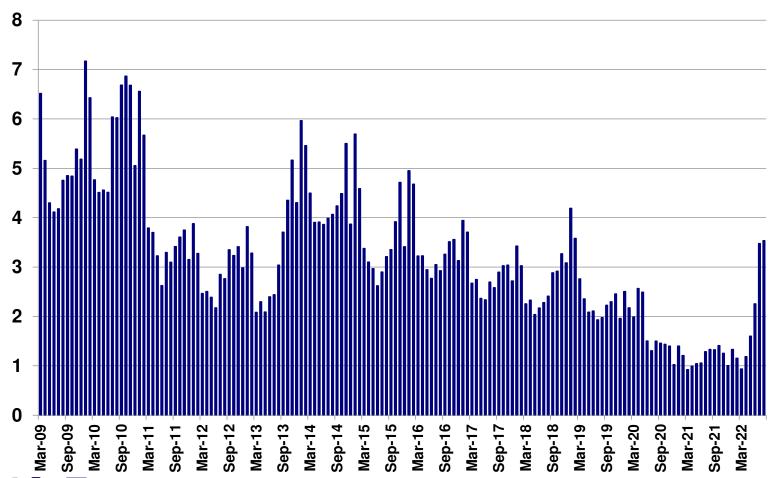




Greater Phoenix Months Supply

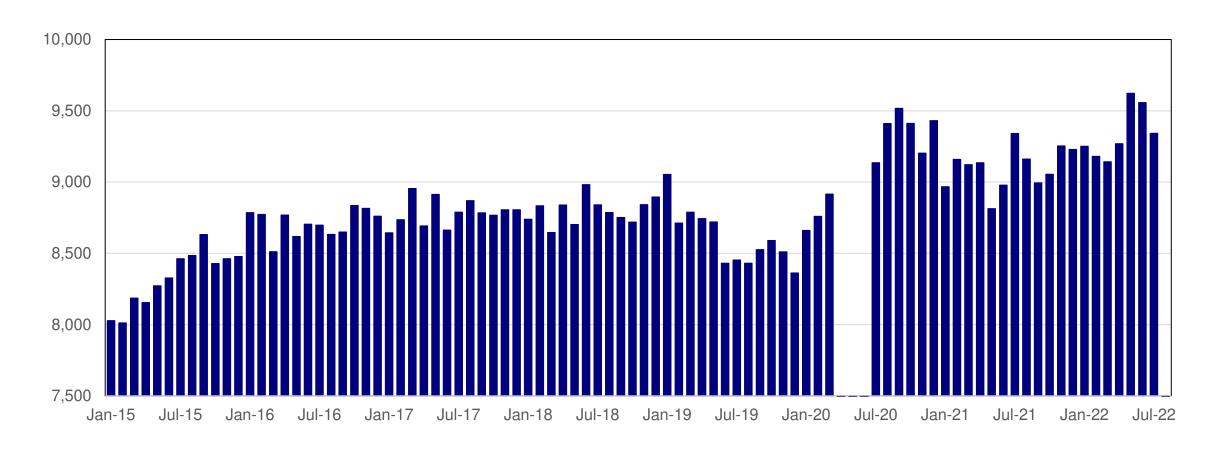
2009-2022*

Source: ARMLS; Cromford Report



- Days of inventory:
 - Long run average 66.7
 - Currently at 60.8
- Days of Inventory for homes under \$400,000:
 - Long run average 51.4
 - Currently 35.3

Greater Phoenix New Listings (SA) Source: Redfin



Greater Phoenix MLS Housing Listings by Price

	Aug. 2015	Aug. 2019	Aug. 2021	Aug. 2022
Total	22,554	17,610	12,048	22,317
Under 300K	53.3%	37.9%	16.7%	9.5%
300k-500k	25.9%	32.9%	42.1%	44.0%
Over 500k	20.8%	29.2%	41.2%	46.5%

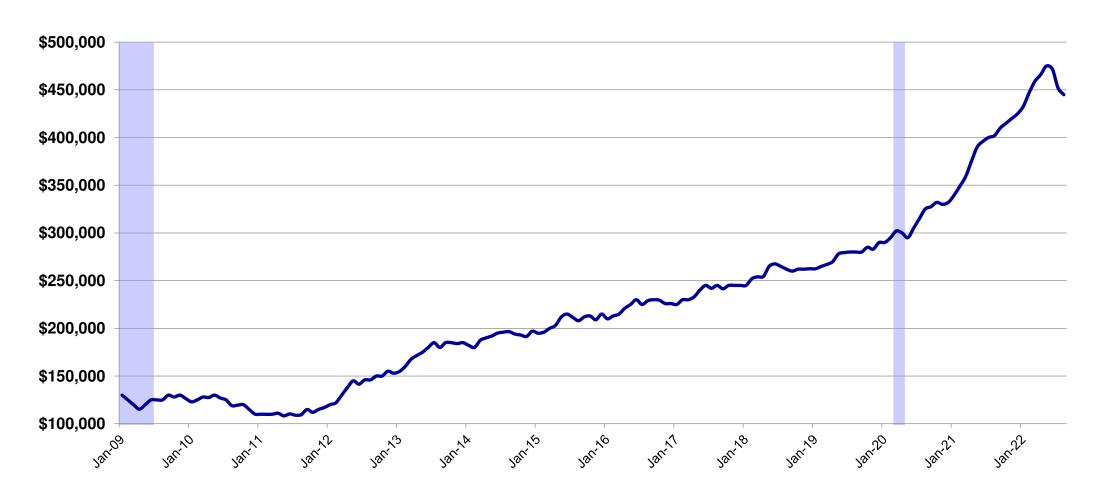


Housing

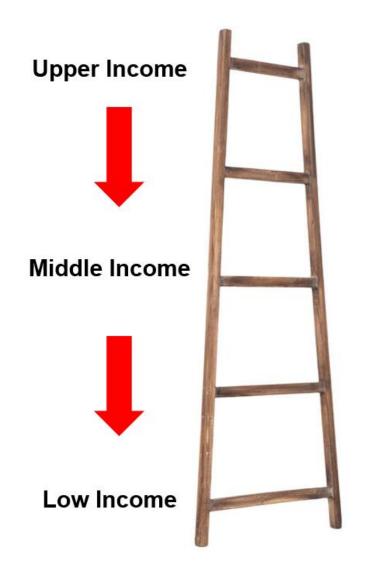


Median Sales Price

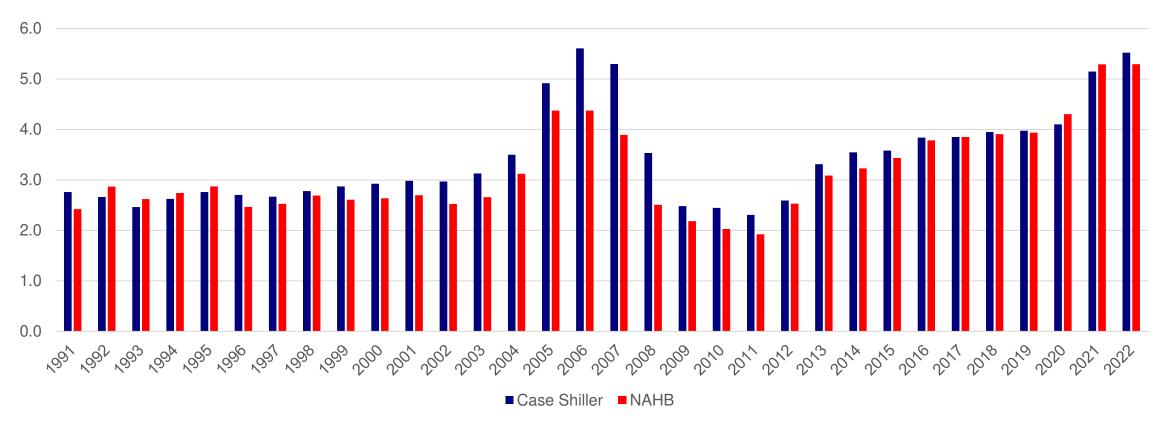
Source: ARMLS



Housing Affordability Ladder Effect



Greater Phoenix Ratio of Housing Price to Family Income



HUD: annual median family income estimates



Greater Phoenix Home Affordability

Year	Cost	Interest Rate	Total Monthly Payment	Annual Household Income Needed	Medium Income	HOI Phoenix
2000 Q2	\$136,000	8.20%	\$1,200	\$51,416	\$53,100	64.4%
2005 Q2	\$225,000	5.82%	\$1,661	\$71,202	\$58,300	49.3%
2010 Q2	\$142,000	5.11%	\$992	\$42,501	\$66,600	80.8%
2015 Q2	\$236,000	3.90%	\$1,495	\$64,091	\$64,000	62.3%
2020 Q2	\$304,000	3.34%	\$1,840	\$78,863	\$77,800	70.3%
2022 Q2	\$470,000	5.33%	\$3,340	\$143,138	\$79,000	22.3%
% Change	245.6%	-35.0%	178.4%	178.4%	178.4%	-65.4%

Total Payment: Principal, Interest, Property Tax and Insurance; LTV 90%

*Source: Freddie Mac, NAHAB

Mortgage Payment Change

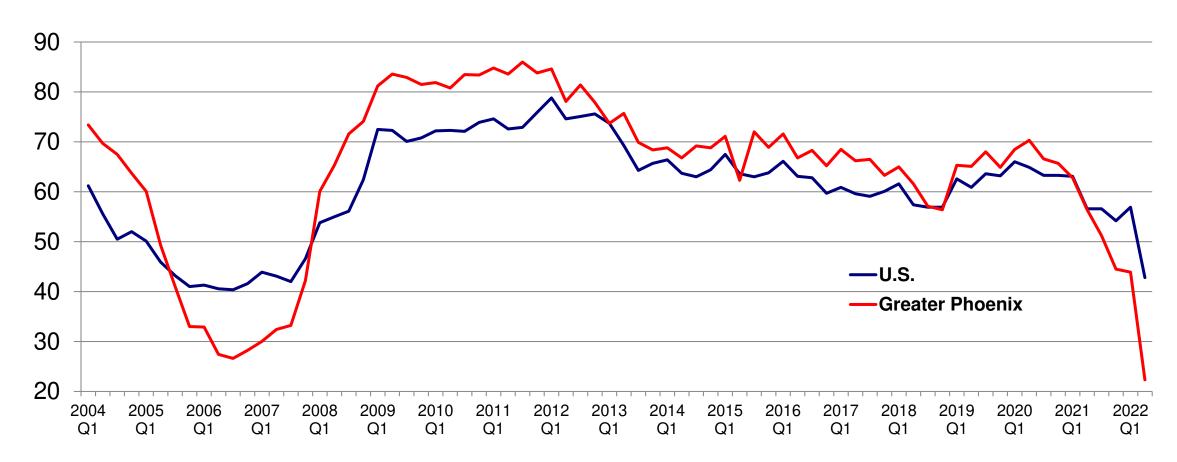
	December 2021	August 2022
Median Sales Price - New	\$445,000	\$514,000
Median Sales Price - Existing	\$439,000	\$450,000
Mortgage Rate Only	3.10%	5.86%
Interest & Principal - New	\$1,710	\$2,732
Interest & Principal - Existing	\$1,687	\$2,392

Mortgage payments for a new home have increased 40% and 52% for an existing home.

Source: Freddie; Information Market

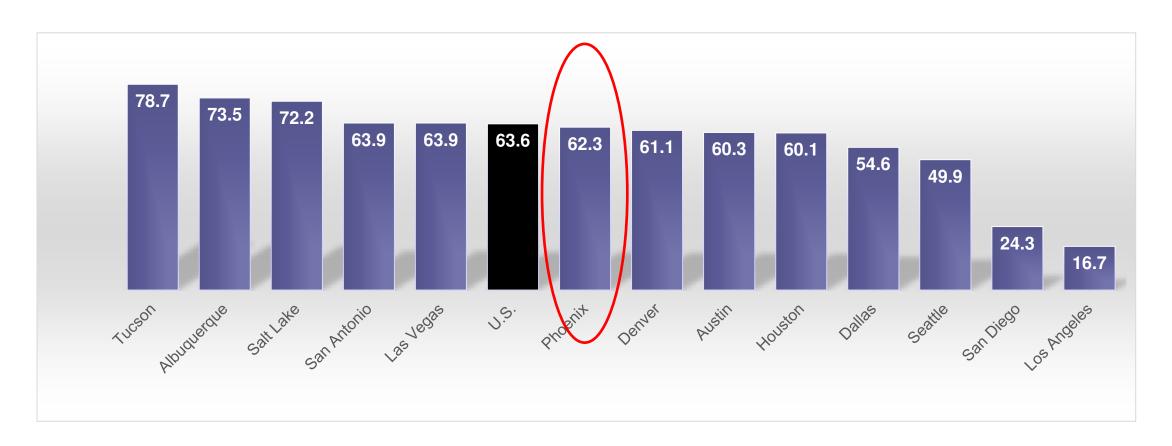


Housing Opportunity Index 2004-2022*

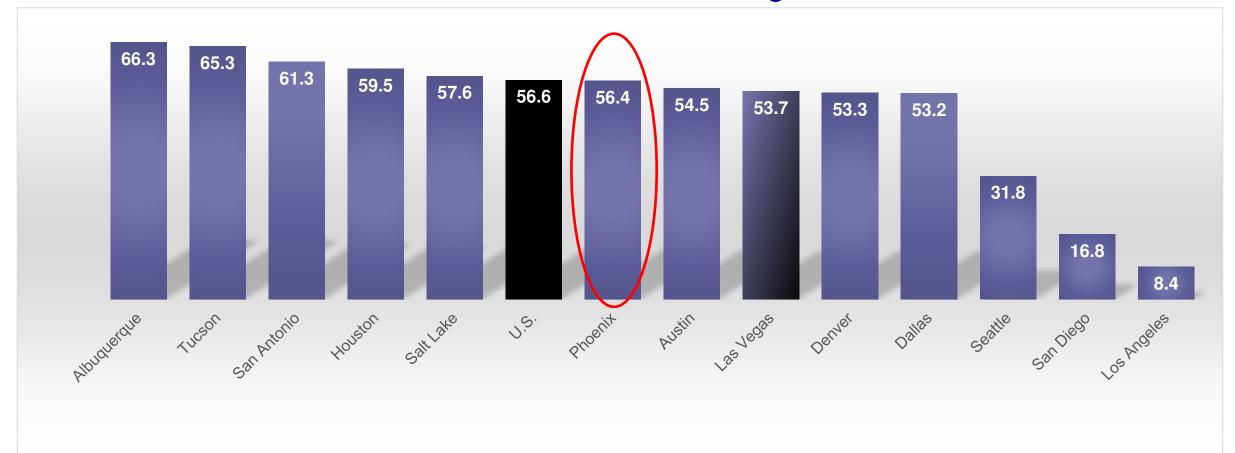




Housing Opportunity Index 2015 Q2

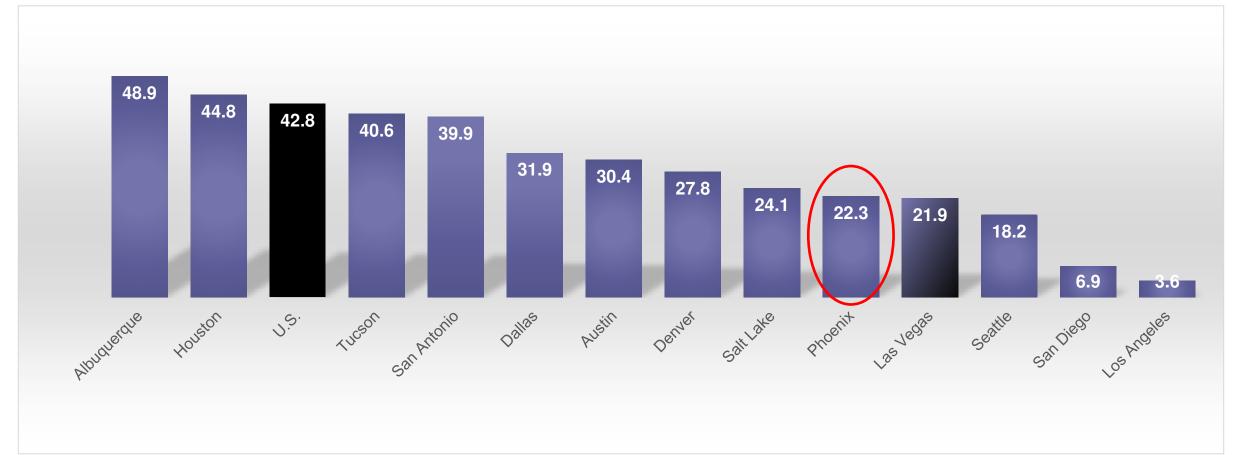


Housing Opportunity Index 2021 Q2



Housing Opportunity Index

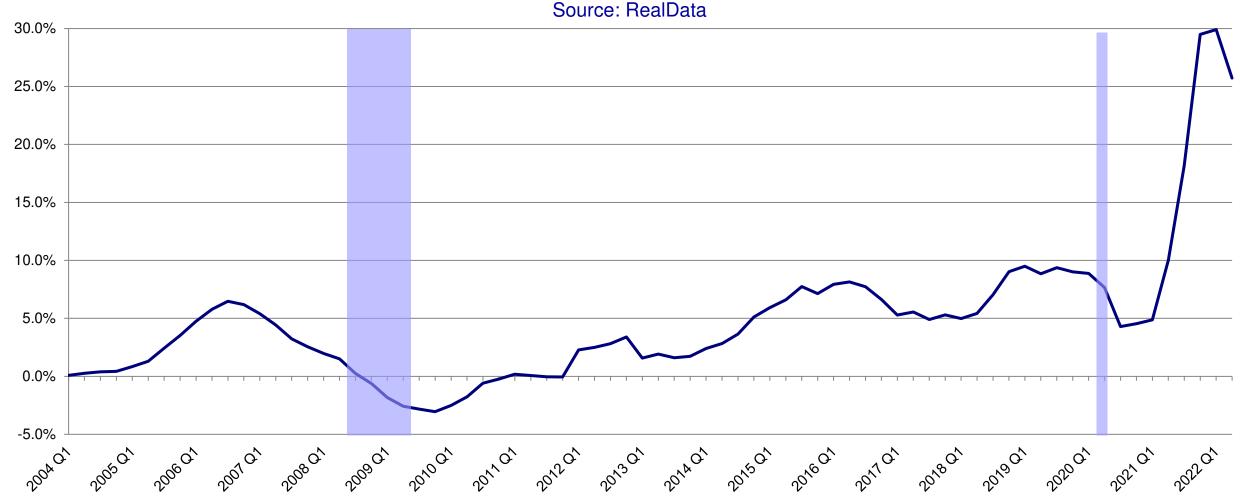
2022 Q2



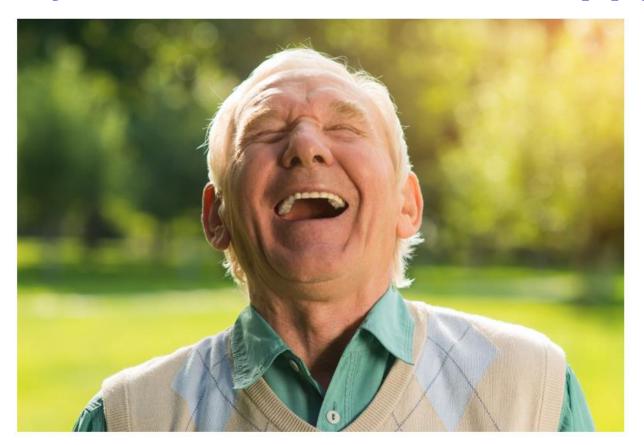
Greater Phoenix Multi-Family Average Rent Percent Change a Year Ago

2004 - 2022*

Recession Periods



Only Landlords are this Happy



What to Expect in the Near Term?

- Higher interest rates
- Lower inflation adjusted income
- More renters.
- Fewer owners.
- More attached housing on smaller lots with shorter setbacks and fewer amenities.
- Rents increase rapidly while housing prices decline.
- More doubling and tripling up.
- More living at home with mom and dad (at least for now).
- More homelessness.
- The need for more housing units has not diminish.



What to Expect in the Long Term?

- Lower interest rates but not likely to be in the 3% range.
- Unless there is a miraculous jump in real incomes, affordability will not get back to historically normal levels.
- This means that the nature of housing changes.
- Huge pent-up demand for all types of housing as millennials have children and follow their parents to the suburbs and delayed housing formation takes place.
- But their first home is more likely to be a smaller attached product.
- Those who have double up or lived with parents are likely to create a huge number of new households.
- Unless cities get on board economic development will become more difficult.



Why did housing prices rise so quickly?

- Labor shortages Because of the decline of new housing starts, this should be less of a problem in the near term.
- 2. Supply Chain Issues Many of these issues should be resolve over the next year.
- 3. Supply Demand Imbalance affordability issues in single family will kick this can down the road.
- Increase in cost due to marginally necessary or unnecessary new/existing regulation as well as time delays getting through the process. If cities do not deal with this now, it will make things worse on the other side of the current situation.

Fix these now or these issues will return.



OFFICE



INDUSTRIAL



RETAIL



What to Expect Next Year?



Greater Phoenix Conclusion Short Term

- The near term will be difficult
- But it is absolutely necessary.
- Tight but easing labor market
- Slower retail sales (temporarily)
- Inflation higher than U.S.
- Housing Affordability remains an issue



Greater Phoenix Conclusion Longer Term

- Phoenix will continue to grow more rapidly than the U.S. as a whole.
- The water issue will be resolved as more water is used for commercial and industrial uses and less for agriculture. As well less water will be use for landscaping.
- If the cities within the metro area get on board, housing affordability will improve. It
 is still unlikely to get back to pre-Covid affordability levels.
- Economic development activity will continue to thrive. Greater Phoenix will create more jobs than most places.
- Housing will cycle up dramatically but the nature of housing might be changing.

The long-term outlook is very good. The short term.....not so much.



What can possibly go wrong?



- 20% Best Case Things work out as planned. Inflation is brought back under control quickly and smoothly and we all live happily ever after.
- 50% Base Scenario We are in for a rough ride. It will take a
 while but we get through it and the economic situation improves
 in 2024.
- 30% Worst Case –Things get rocky. We end up with the actions of the Fed, Fiscal policy or black swan event causing things to be worse than anticipated.





