

State of the Housing Market

- "The housing market will recover. It always has. The American story, written in homes, will continue to prosper and grow." - David Lereah
- "Real estate cannot be lost or stolen, nor can it be carried away. Purchased with common sense, paid for in full, and managed with reasonable care, it is about the safest investment in the world." - Franklin D. Roosevelt
- "Ninety percent of all millionaires become so through owning real estate." Andrew Carnegie
- "Real estate is an imperishable asset, ever increasing in value. It is the most solid security that human ingenuity has devised. It is the basis of all security and about the only indestructible security." – Russell Sage



Overview

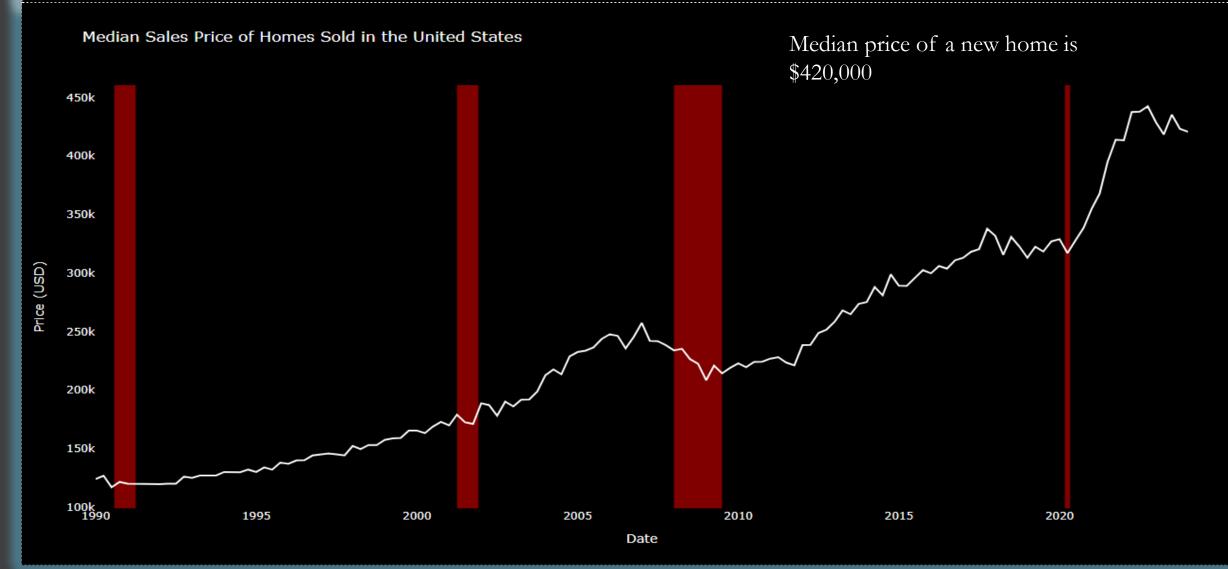
- Building Permits and Housing Starts are negative year-over-year signifying a slowdown is occurring within the housing market
- As this filters through to the number of homes under construction, construction employment will begin to rollover
- Looking back to the 1970's a 10% drawdown in construction employment has been a high probability leading indicator of recessions
- Rates rising from 3% to over 7% locked a large portion of the population within their existing homes creating a frozen housing market and putting a floor under prices
- New homes for sale have risen to 2008 levels with 9.3 months of supply on the market. But new homes make up only 15% of the housing market. Existing homes for sale remain at 3.7 months of supply and make up 85% of the market. Lower rates will be needed to unlock this supply and could be a catalyst for lower prices
- The existing new homes for sale are only 20% of what is in the pipeline with the other 80% either just being started, under construction, or just being completed. Once the market for existing homes picks up the total supply could overwhelm demand



Overview

- Rate buydowns being offered by home builders has allowed for housing activity to continue over the last year for new homes but they sacrificed their own margins to get this done
- Immigration over the past 4 years has created demand for housing. Estimates upwards of 12-14 million people have come into the country and these people all need a place to live
- Home prices are up a total of 40-50% over 4 years and the average mortgage payment is up almost 100%
- Other catalysts that could bring home prices down are employment slowing, creating forced sellers, a pullback in consumption/travel causing Airbnb owners to sell (there is a record number of people that own multiple homes), investors from China being forced to sell homes (China's real estate market peaked at \$50 trillion and is now going through deflation)

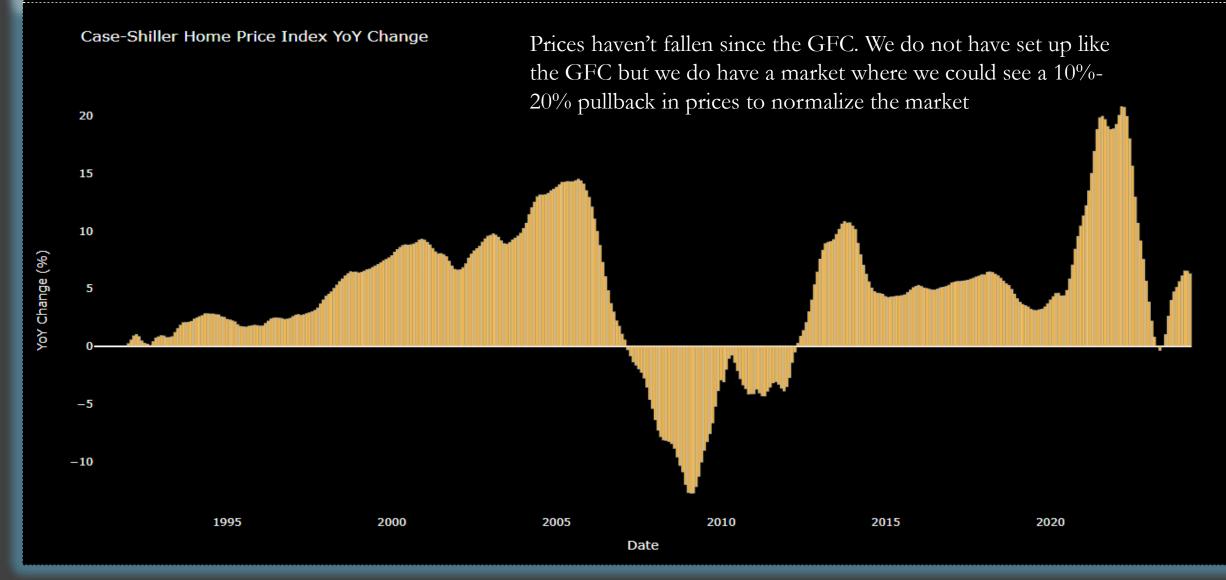




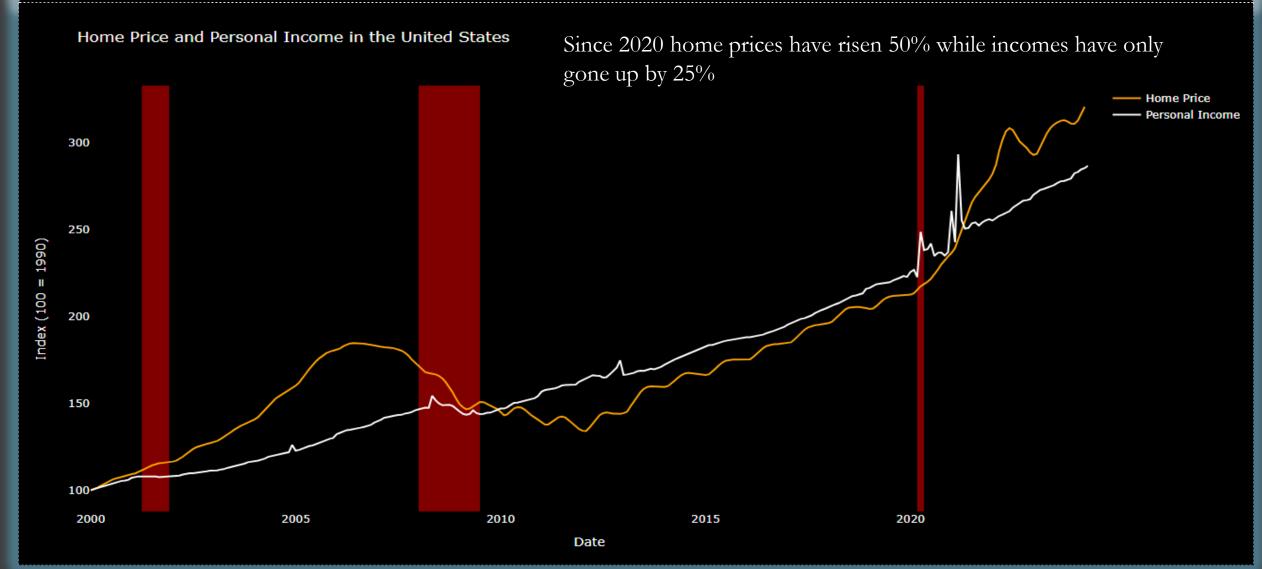






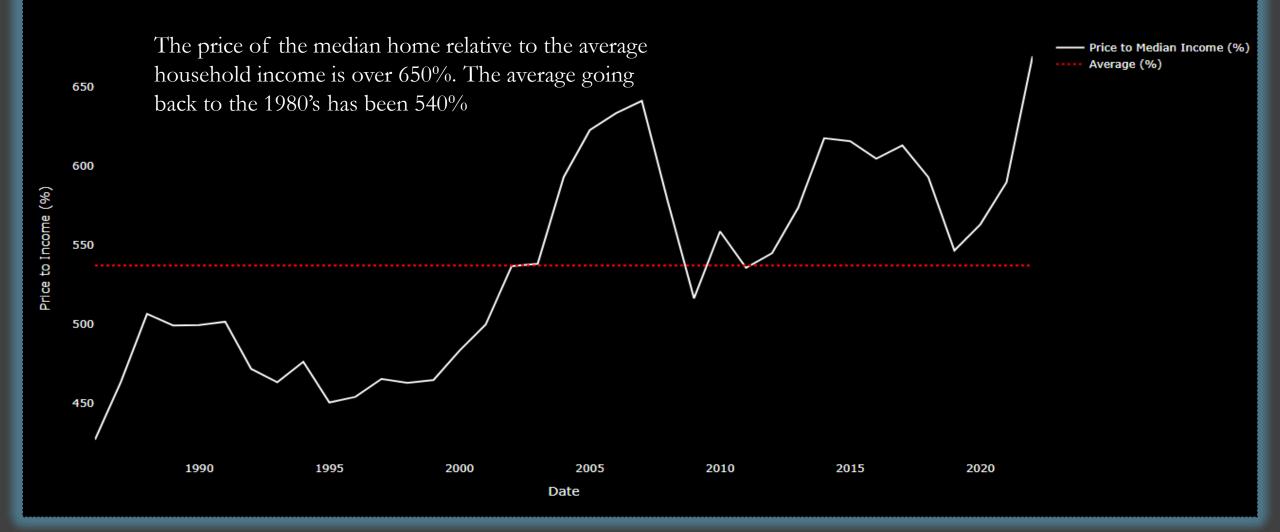






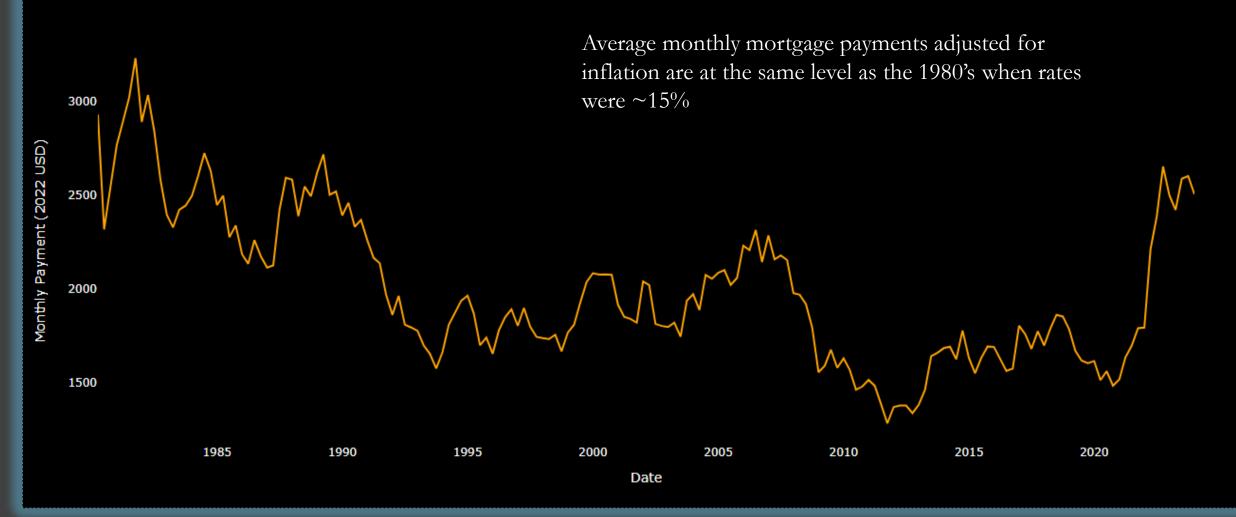


Price to Median Household Income for Homes Sold in the United States

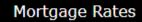


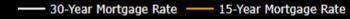


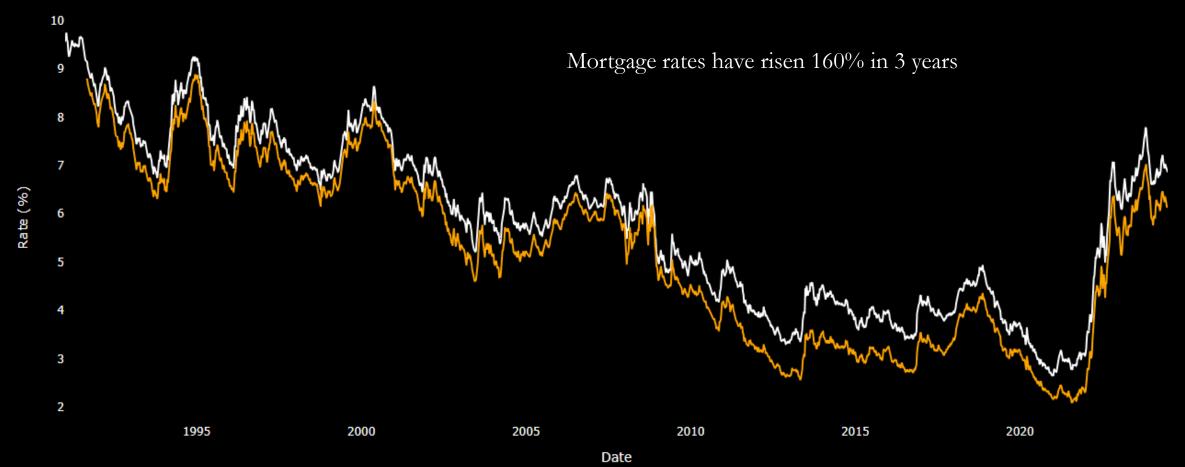
Average Monthly Mortgage Payment in the US (in 2022 Dollars, with 20% down payment)



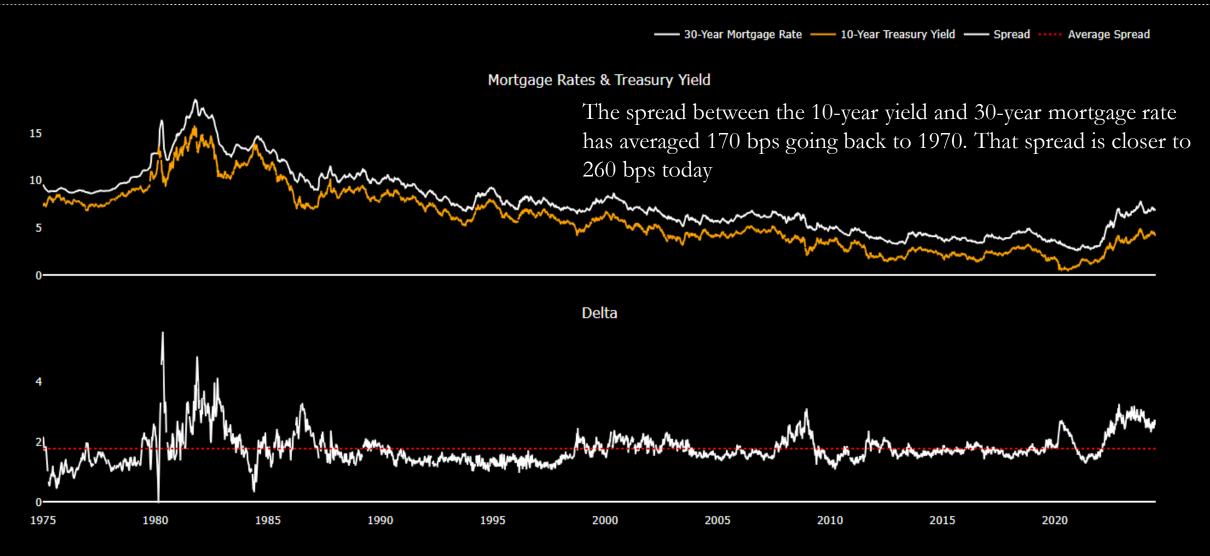




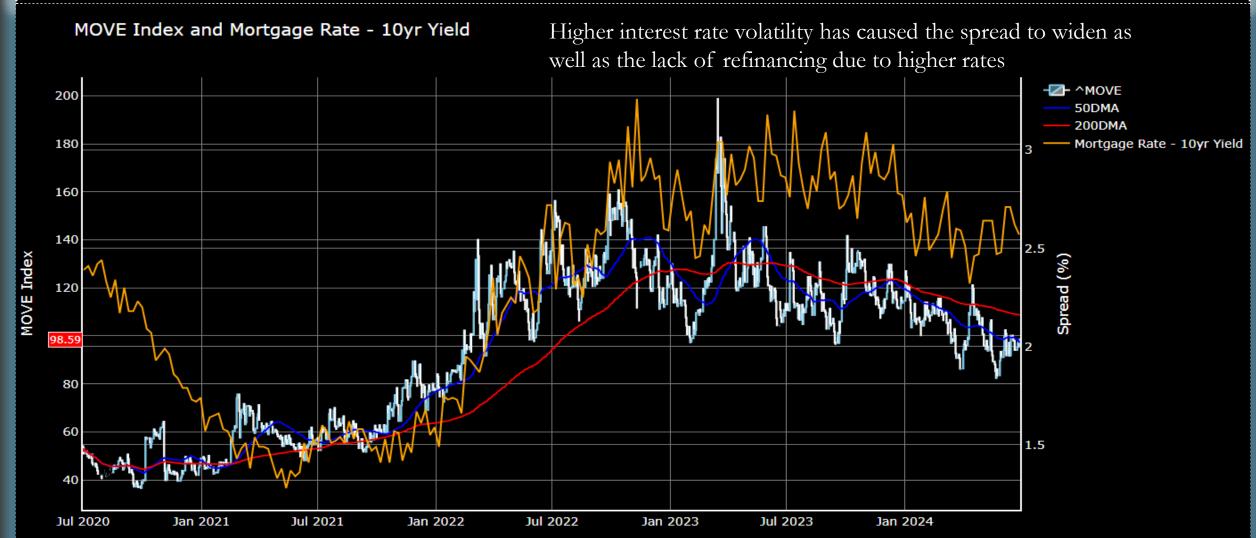








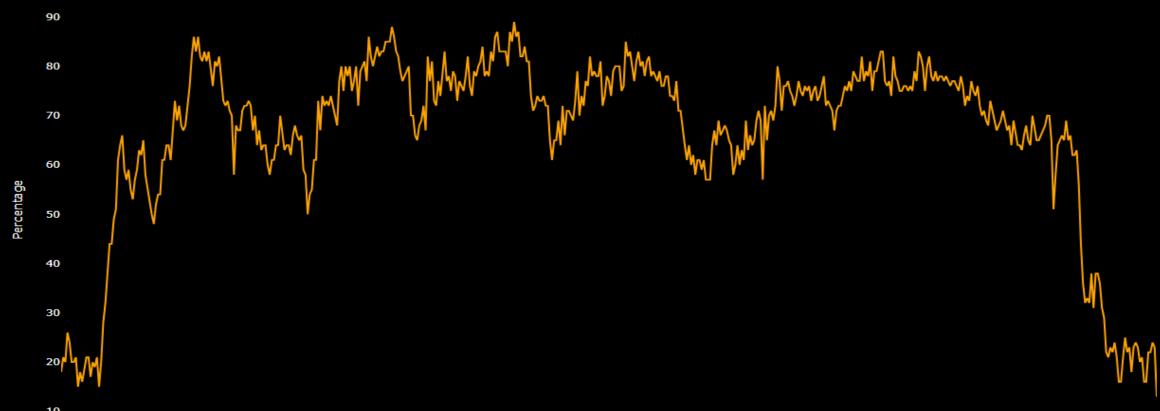




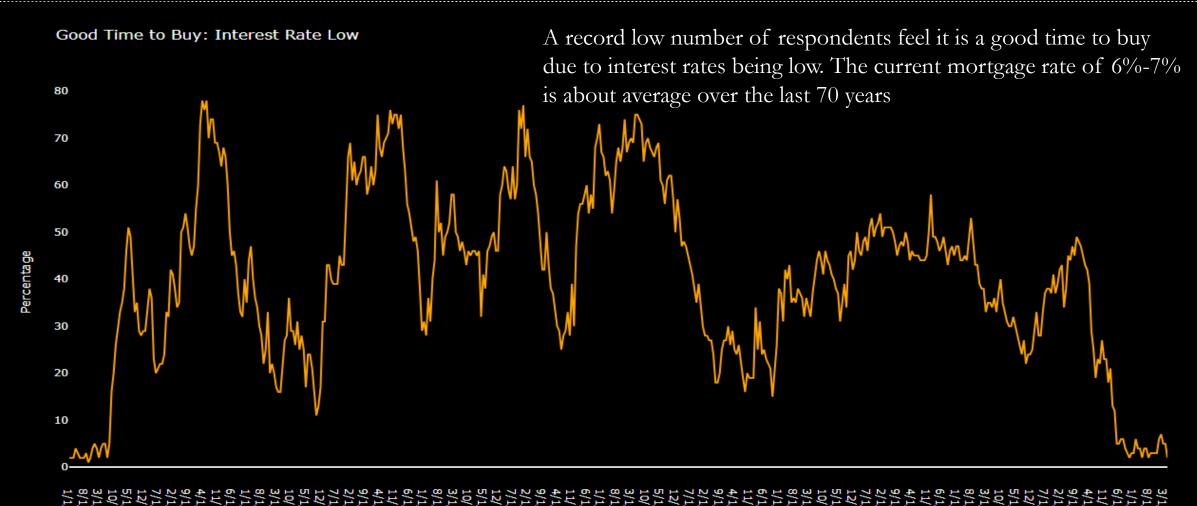




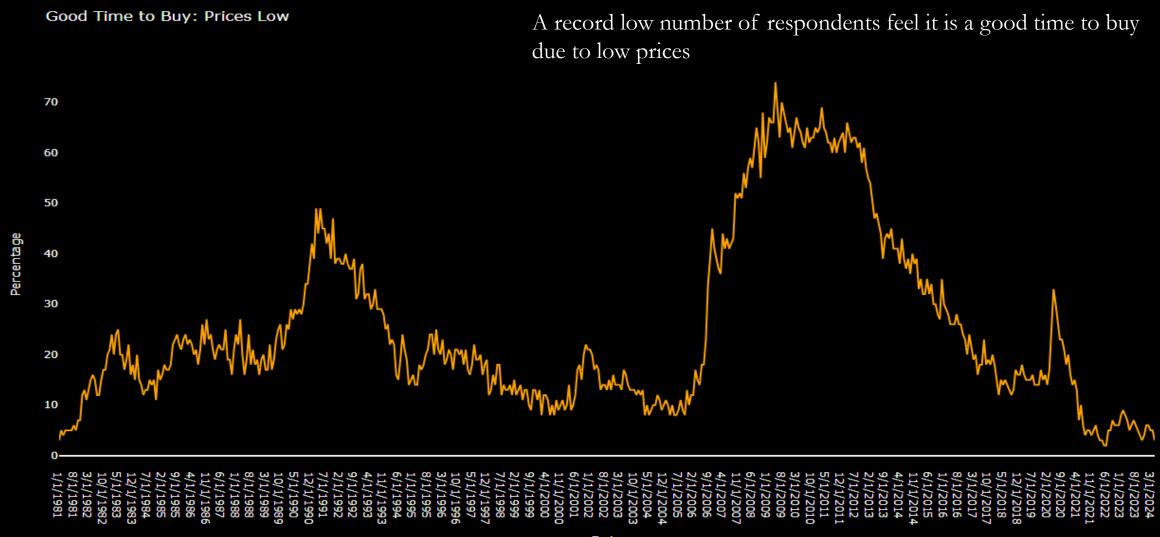
Respondents to the University of Michigan survey think it is the worst time to buy a home in the last 50 years









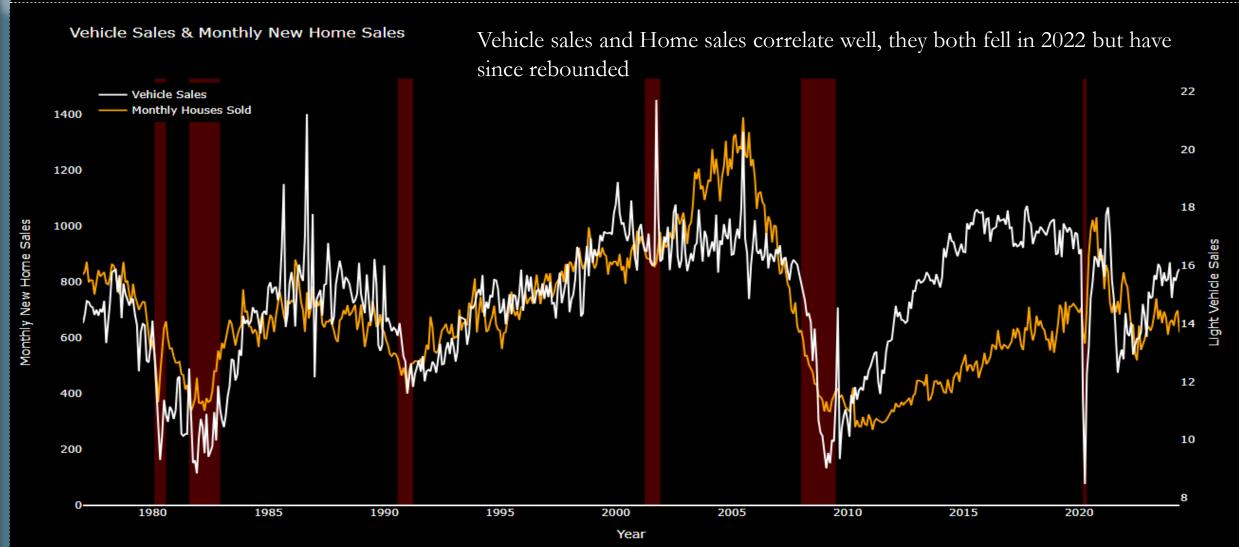




Percentage of Respondents Expecting Home Prices to Increase in the Next 5 Years

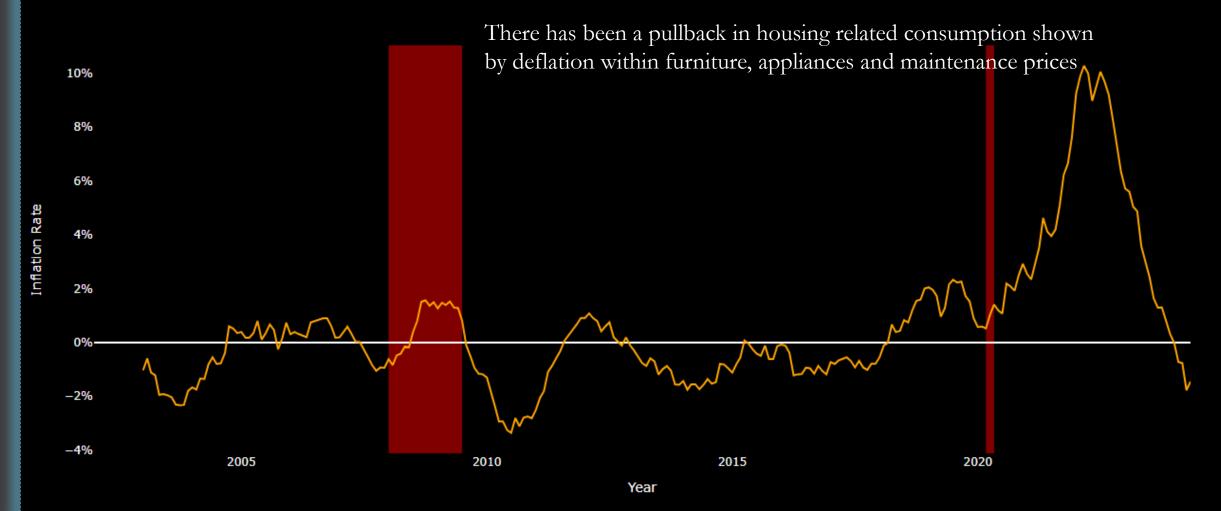






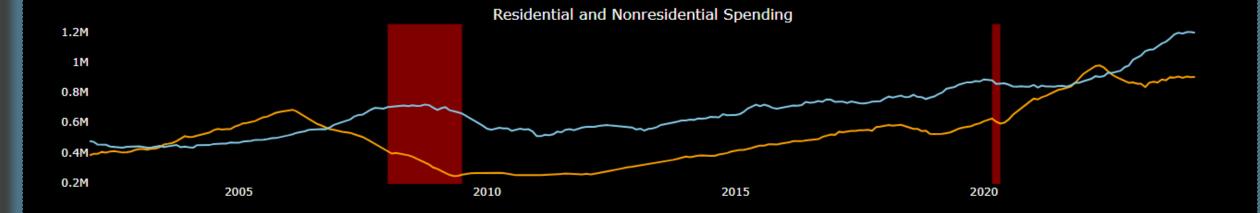


HICP: Furnishings, Household Equipment, and Routine Maintenance of the House





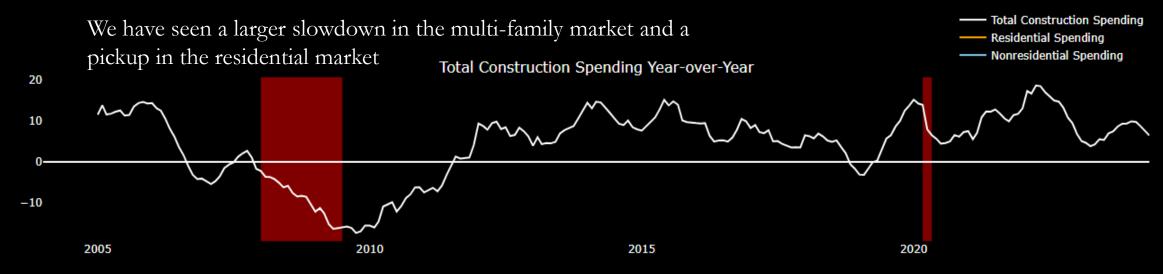






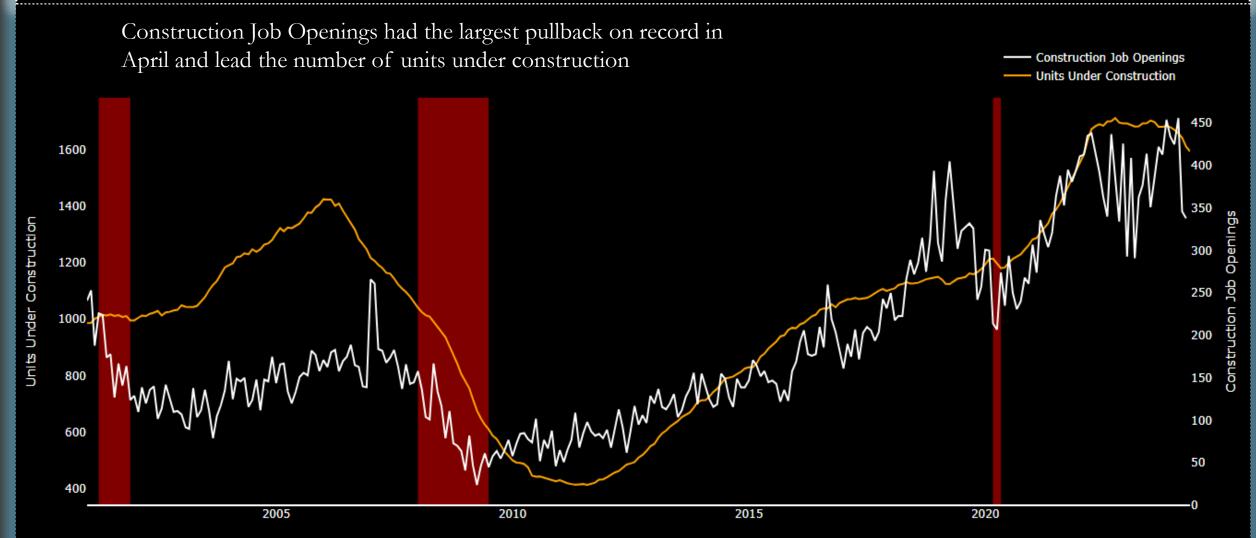




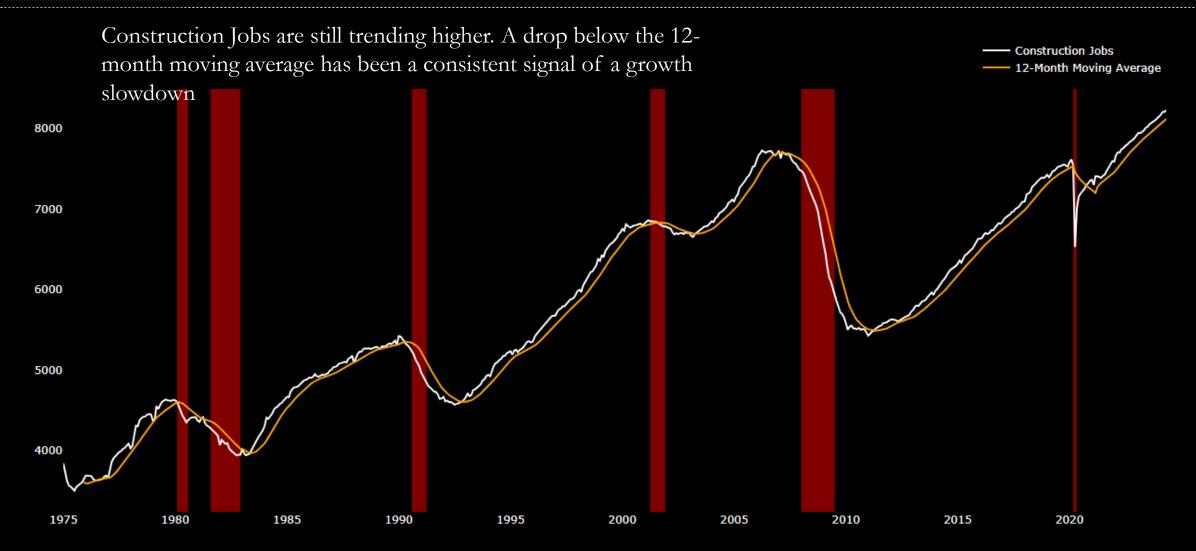












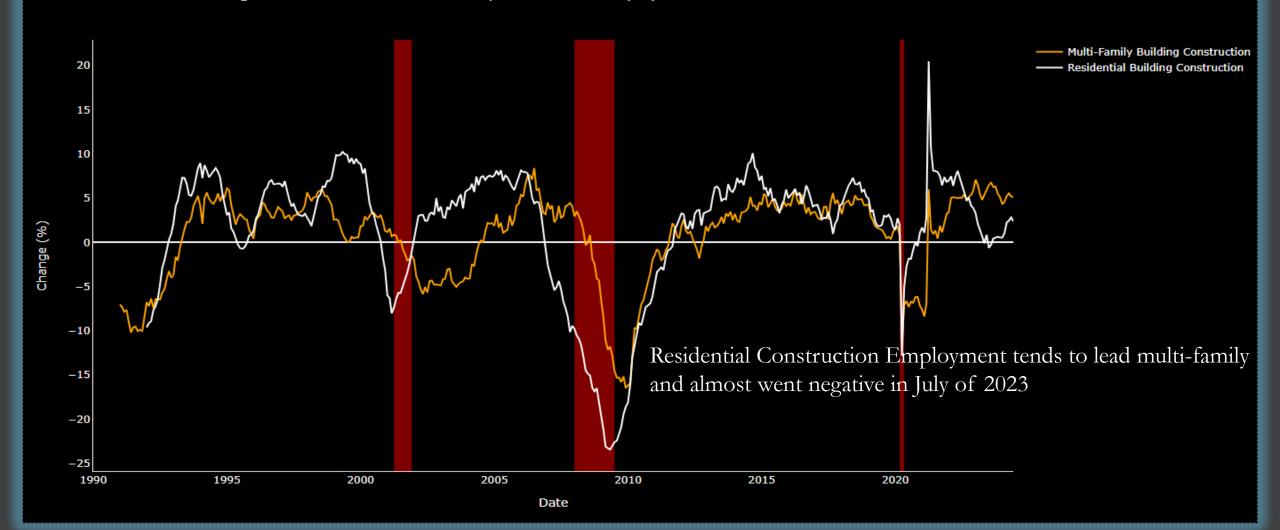








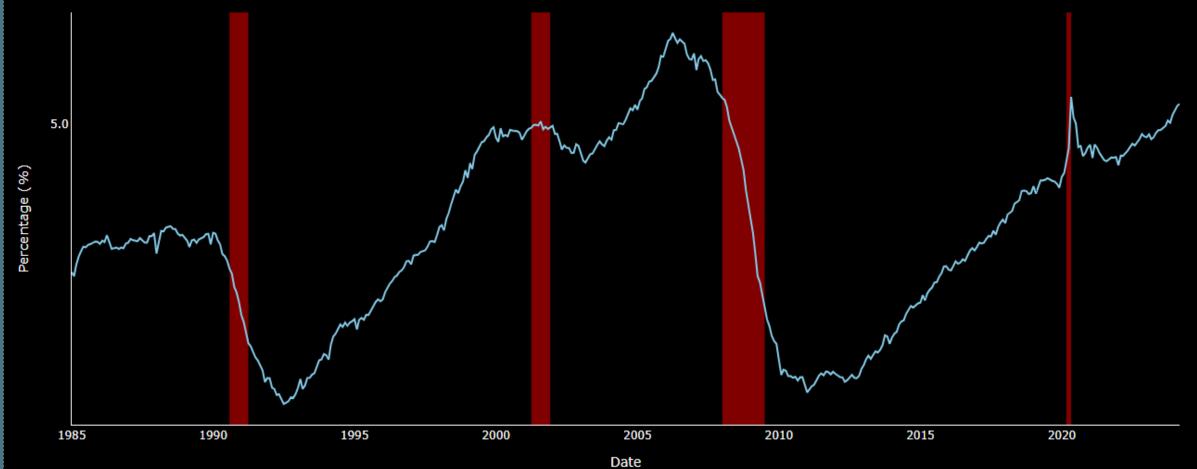
Year-over-Year Change in Residential and Multi-Family Construction Employment



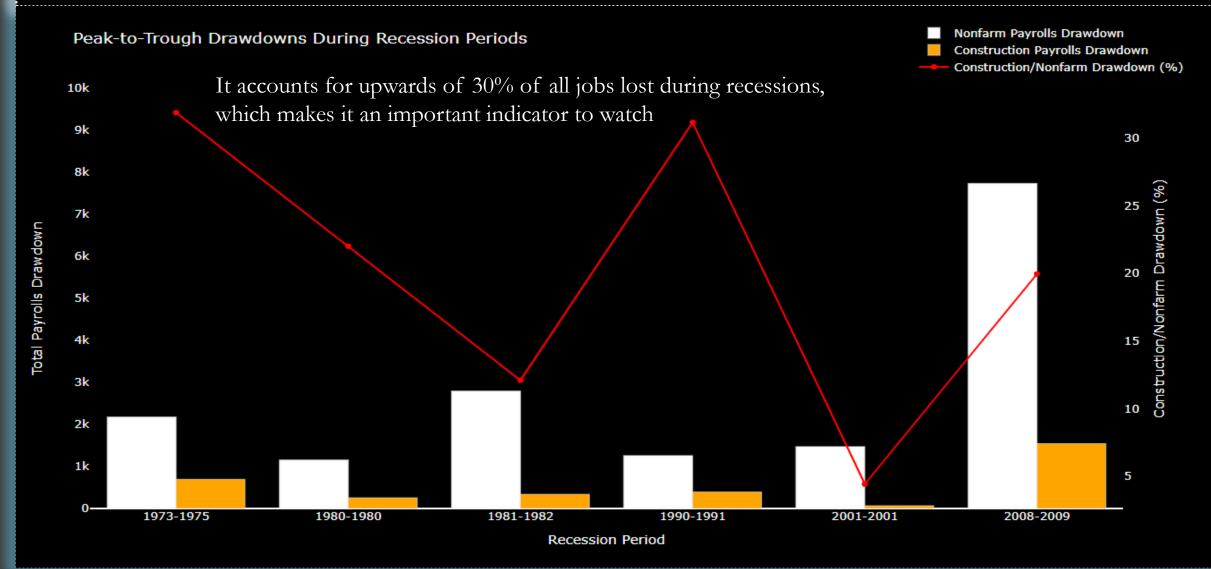


Construction Employment as a Percentage of Total Employment

Construction Employment makes up 3-5% of total employment



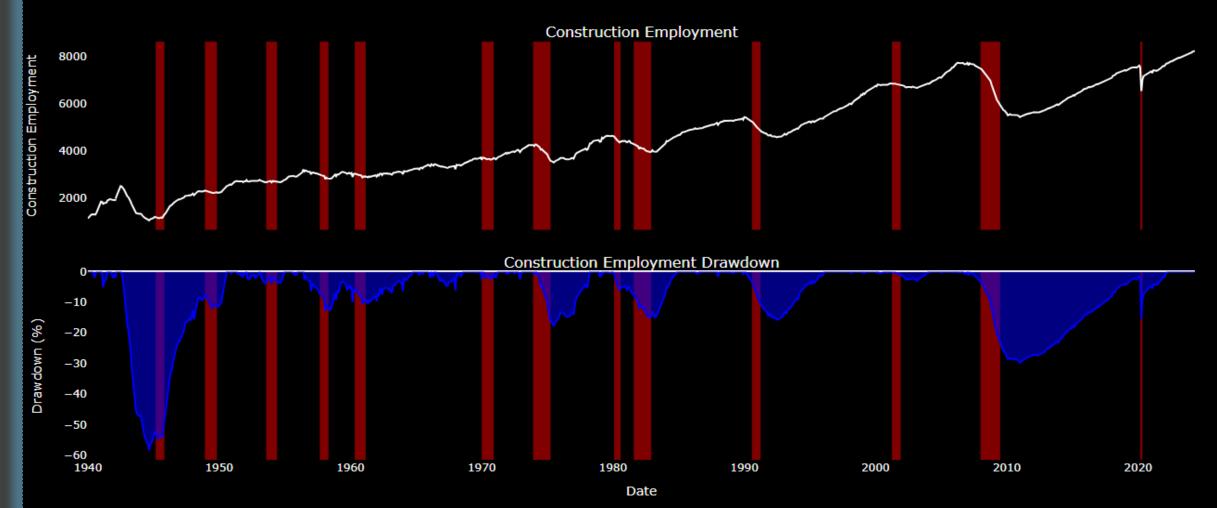






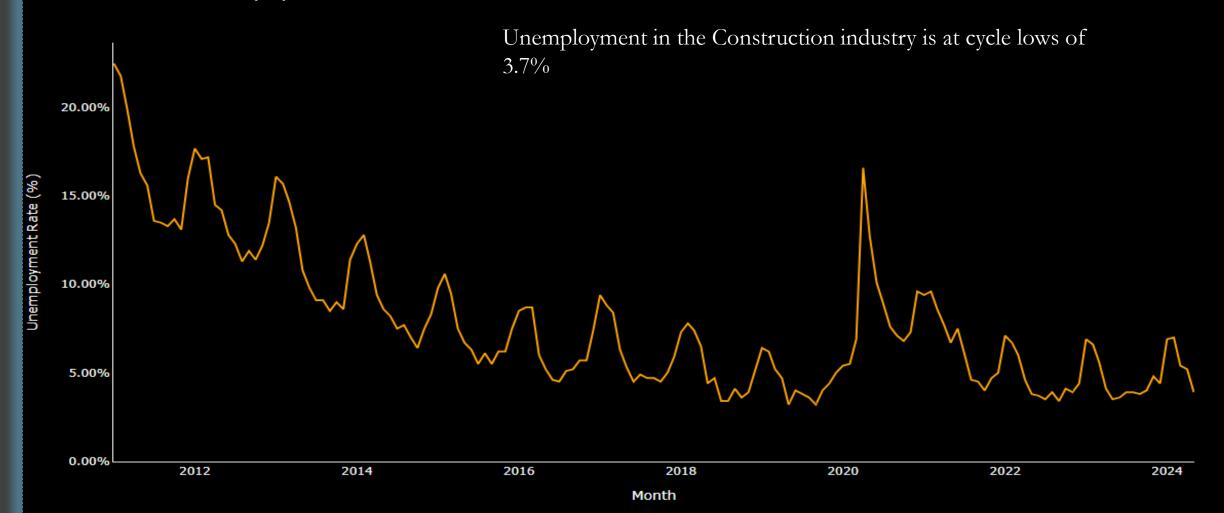
Drawdowns of 10% have been consistent with recessions and would be an indicator to de-risk your portfolio

Construction Employment and Drawdown





Construction Unemployment Rate





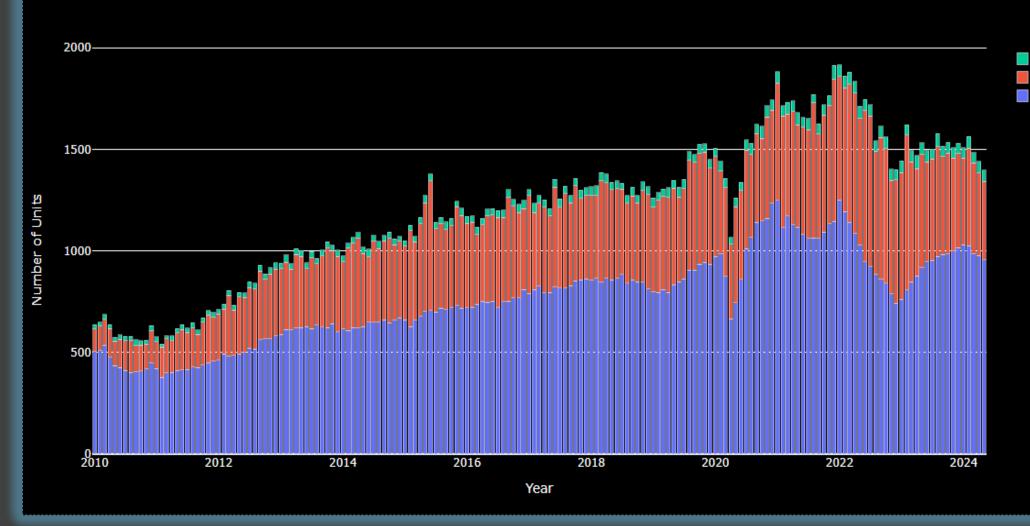
Units in Buildings with 2-4 Units
Units in Buildings with 5 Units or More

Single-Family Units



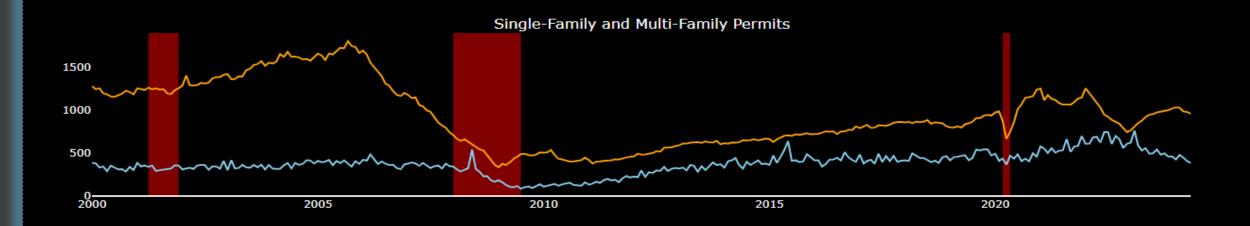
Building Permits have slowed and give you an idea of where construction employment will go as well as the number of homes being built. A permit issued is only a potential new home, as a builder can make the decision to delay construction

New Privately-Owned Housing Units Authorized by Permit Type

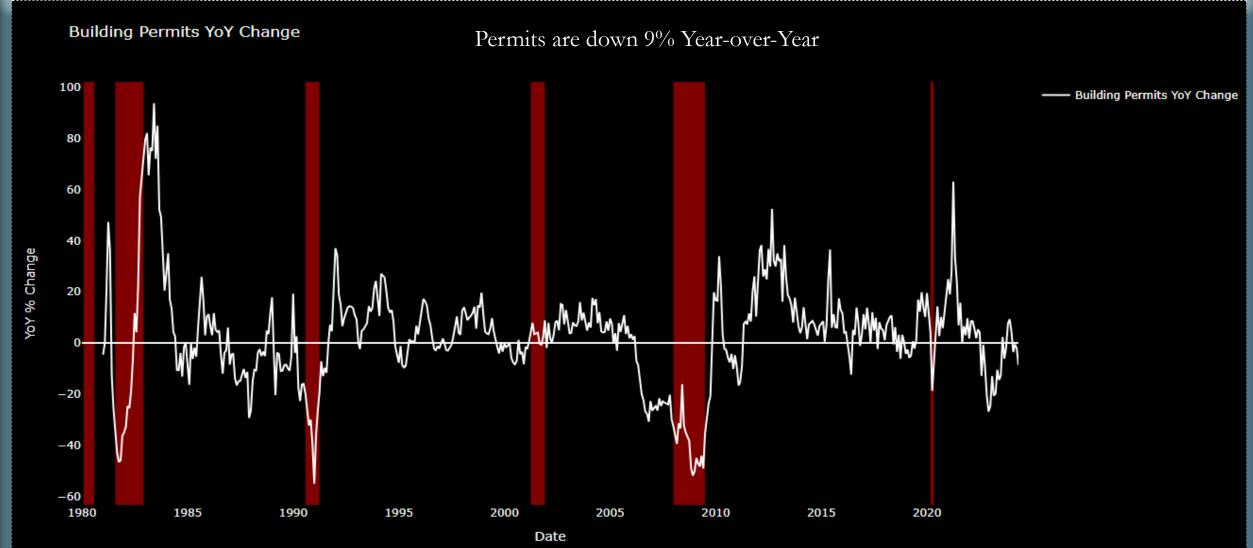




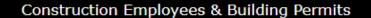




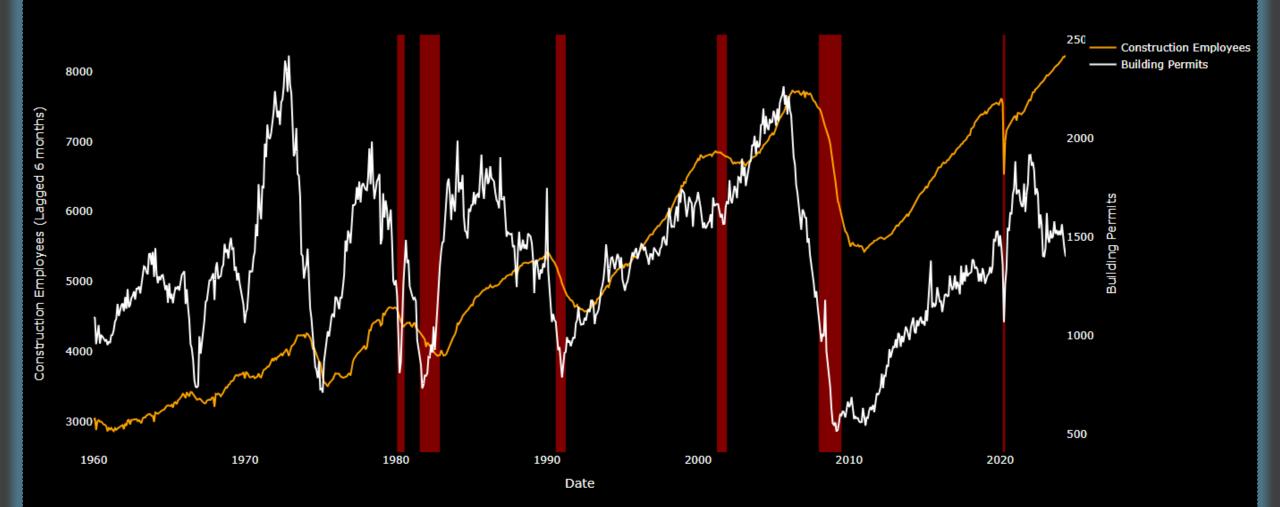








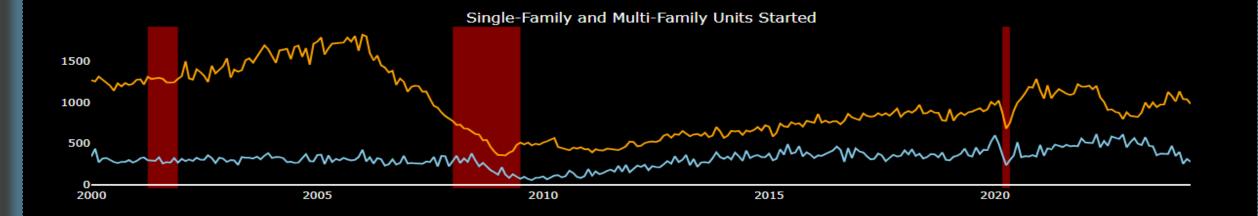
Building Permits have a 12–14-month lead on Construction Employment





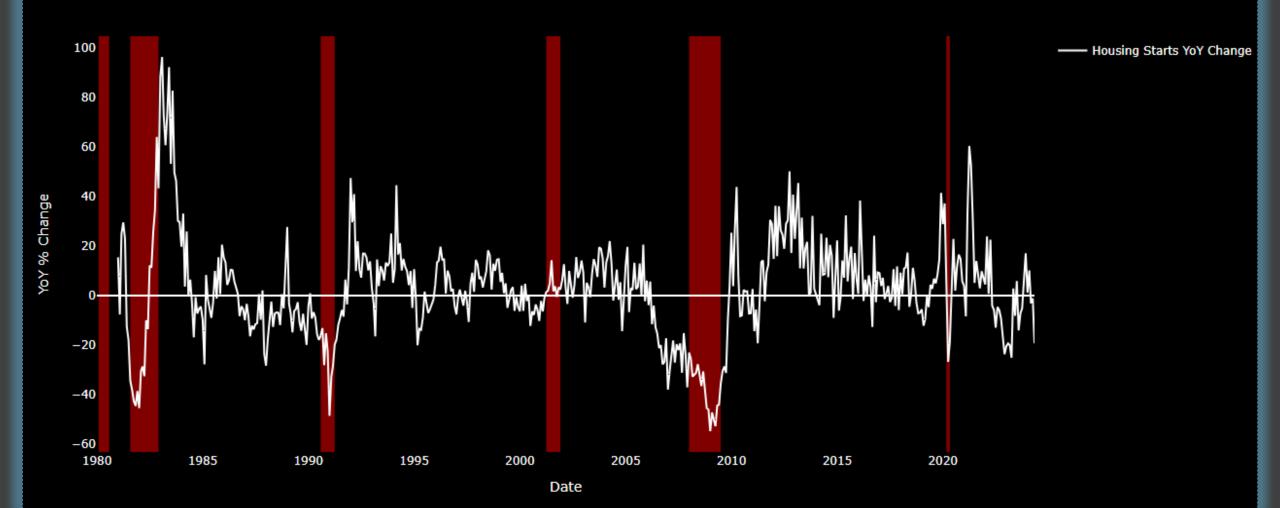
Housing Starts for multi-family started falling first but residential has now also begun to follow





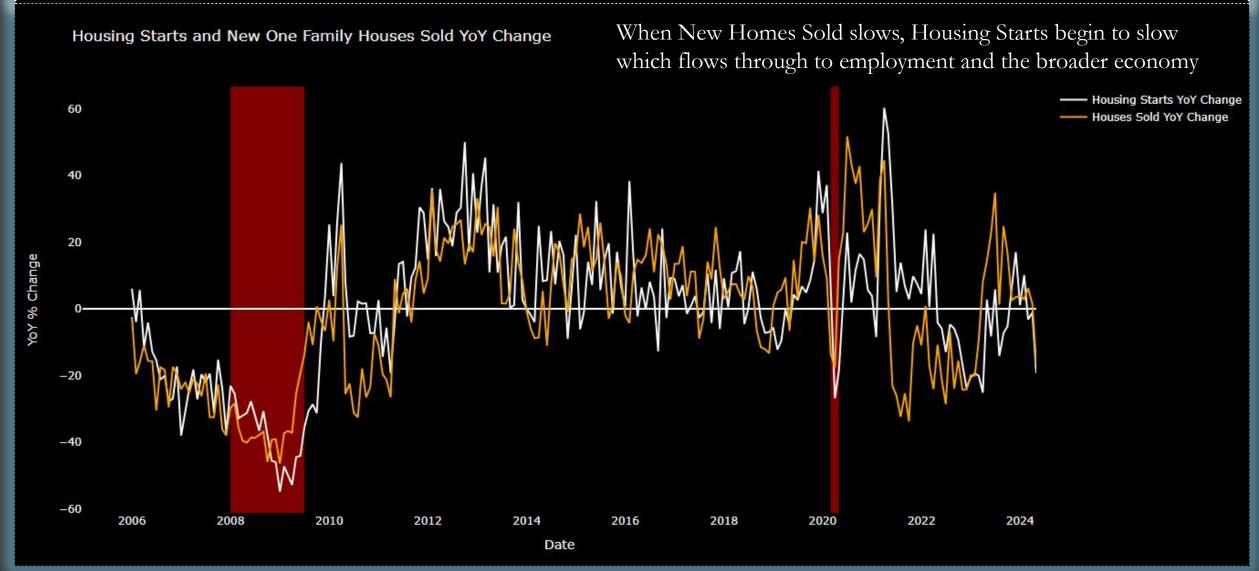


Housing Starts YoY Change



Housing Starts are down 16% Year-over-Year





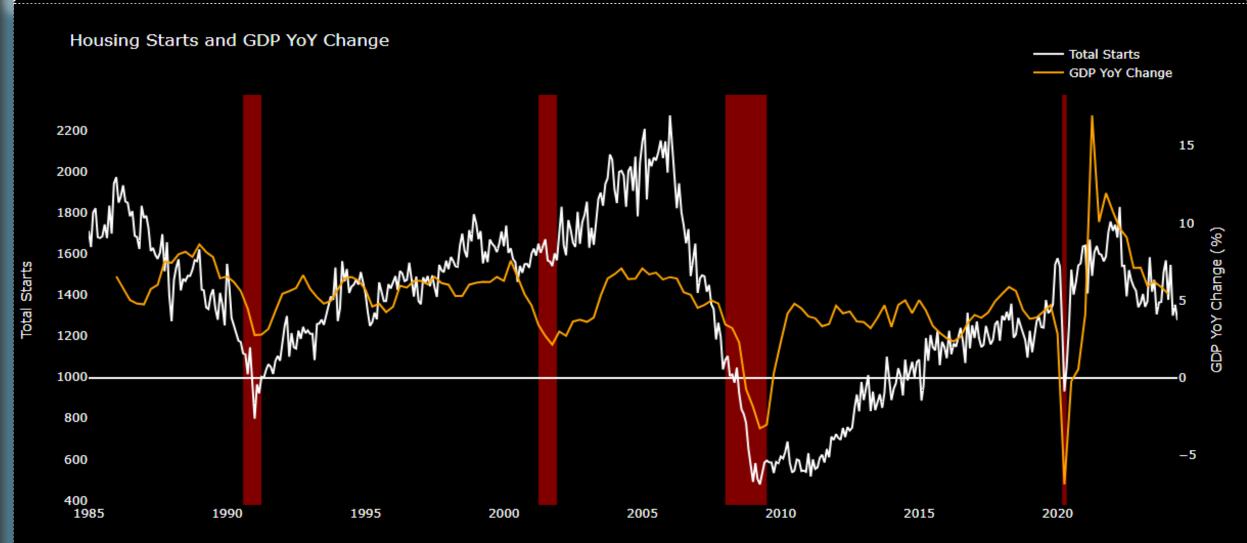


Like Building Permits, slowing Housing Starts lead Construction Employment



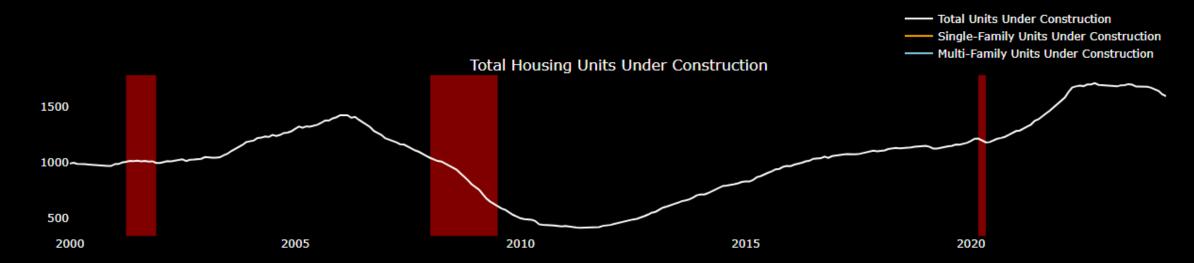


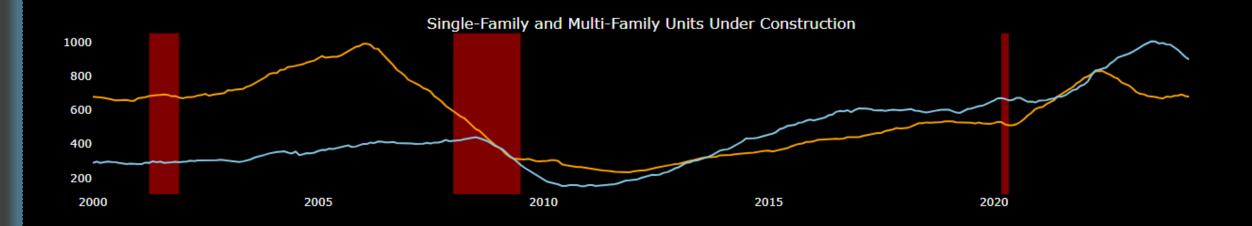
Housing Starts have a high correlation with GDP and tend to fall prior to GDP rolling over





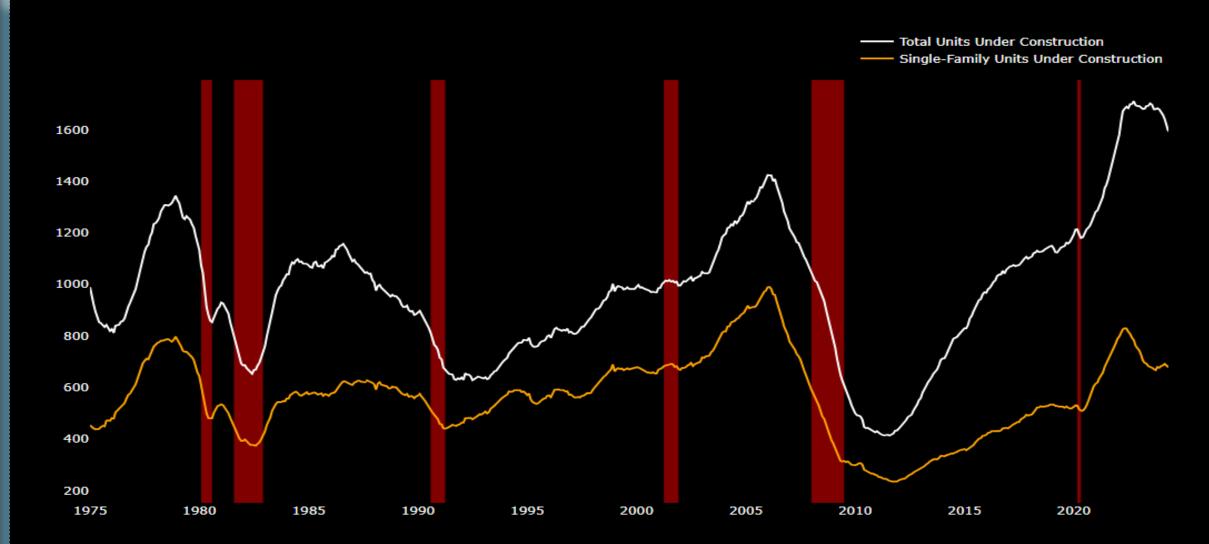
Units under construction remained relatively strong driven by multi-family until it topped a few months ago







The deviation between total units under construction and single-family units is the largest on record



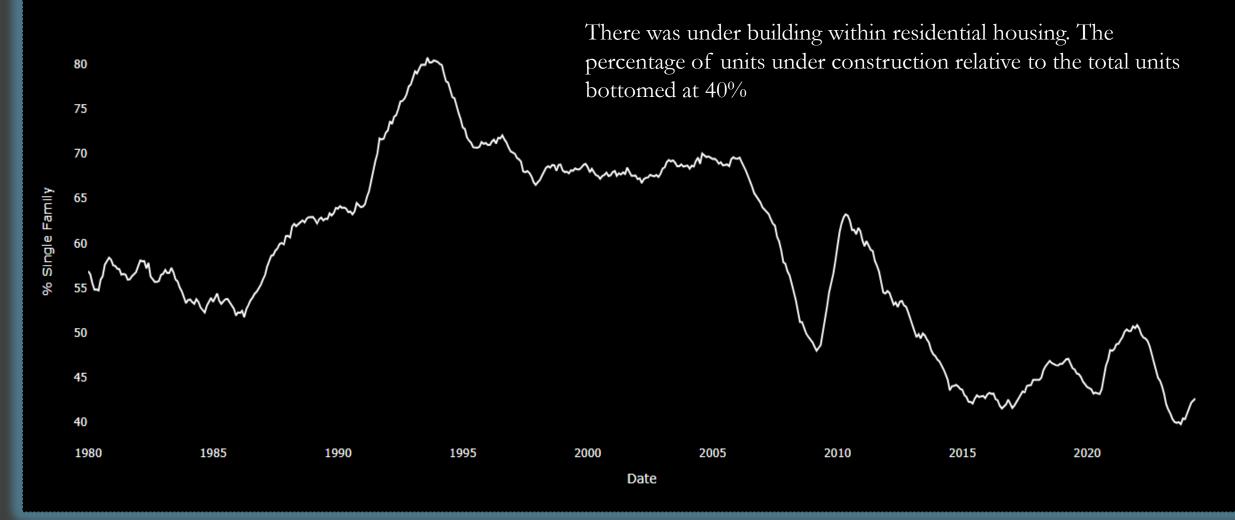


Percentage of Total Units Under Construction: Multi-Family



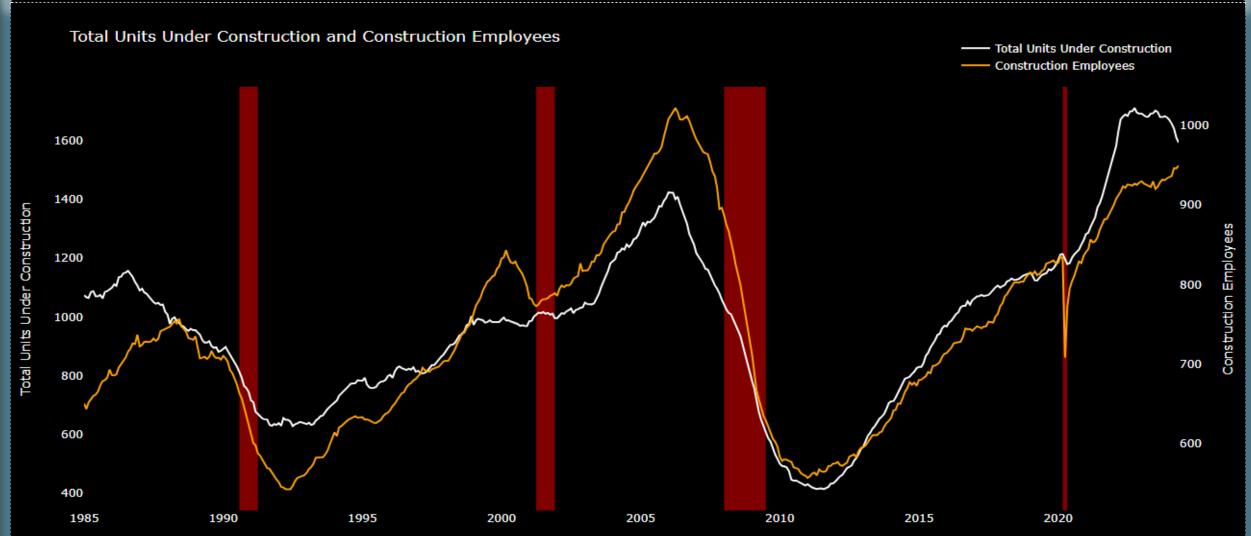


Percentage of Total Units Under Construction: Single Family





The tight relationship between units under construction and Construction Employees says we are nearing peak levels of employment in the space



Total Housing Units Completed Single-Family Units Completed

Multi-Family Units Completed



Units completed have been on a steady trend higher, but we expect this trend to break in the coming months as permits, starts and units under construction slow

Housing Units Completed: Total vs. Single-Family vs. Multi-Family

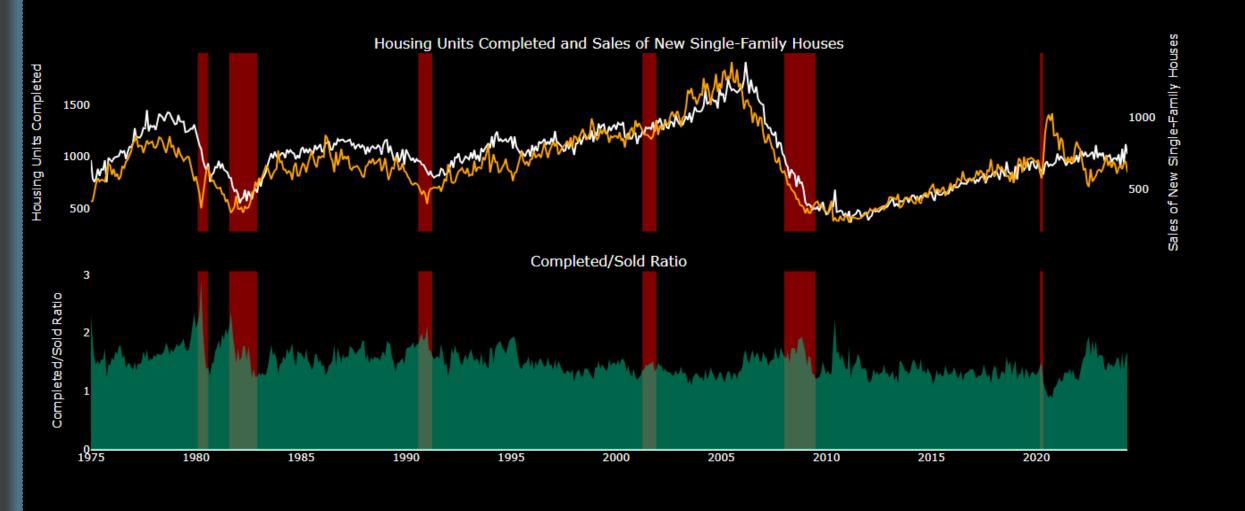








When the ratio of units completed/sold begins to rise it usually spells out recession and lower prices due to write downs occurring to get excess supply sold



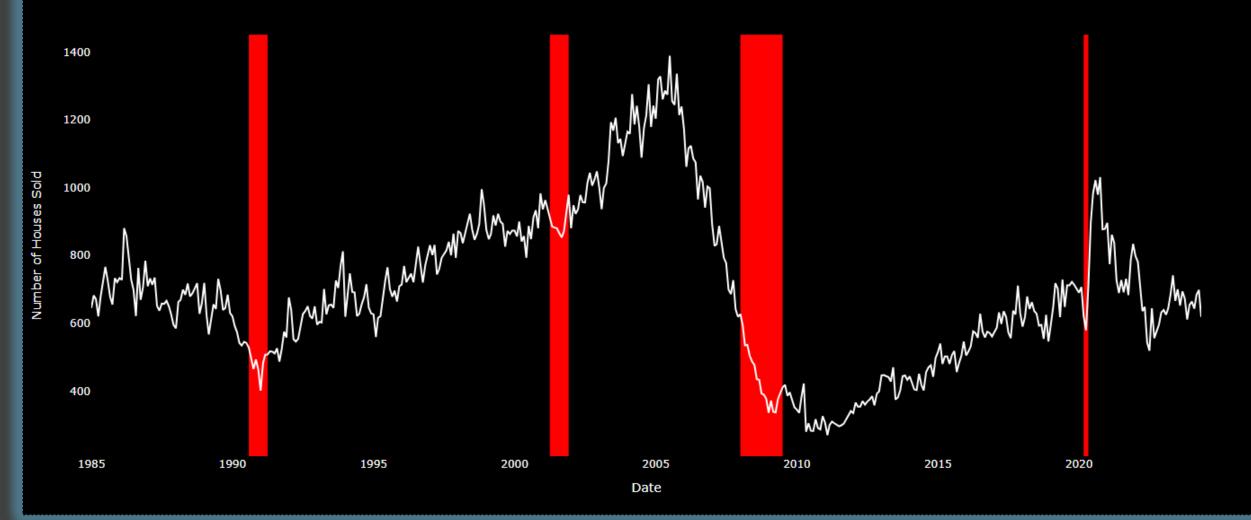
Sales of New Single-Family Houses

lousing Units Completed



New one family homes sold has sharply declined since 2021. The supply within the space has not yet been enough to overwhelm demand.

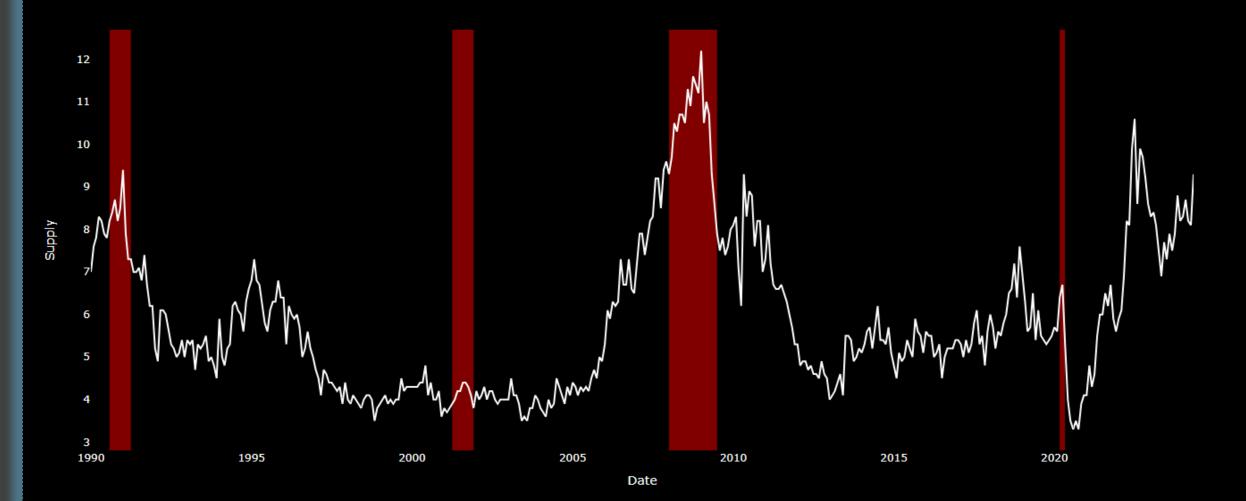
New One Family Homes Sold in the United States





Months of supply has reached 9.3. Breakouts of supply have in the past occurred in recessions, more so due to forced sellers as employment deteriorates

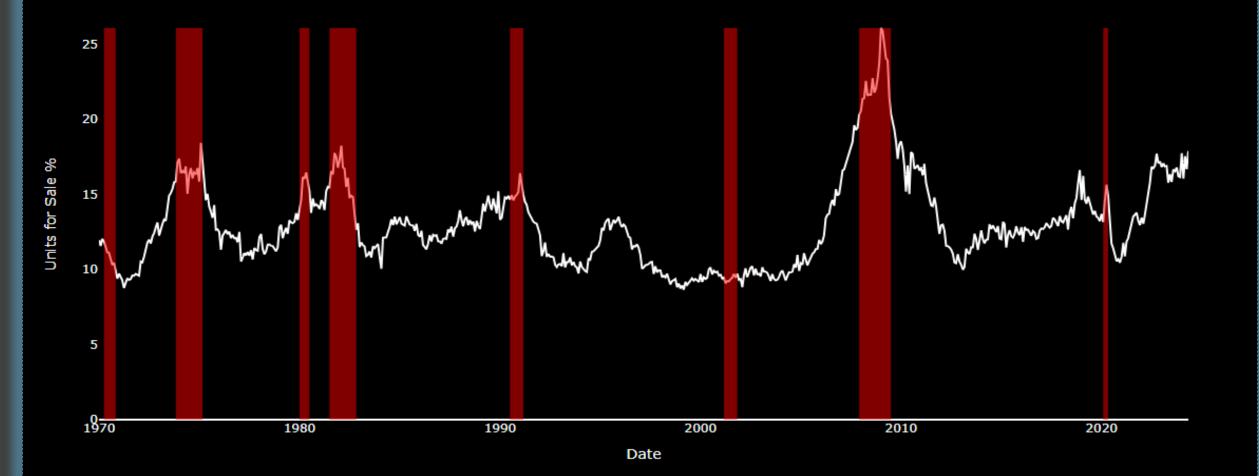
Monthly Supply of New Homes in the United States





The supply is set to continue to rise as only $\sim 20\%$ of the homes in the pipeline (starts, units under construction, completed homes, homes for sale) are on the market with the other 80% not yet completed

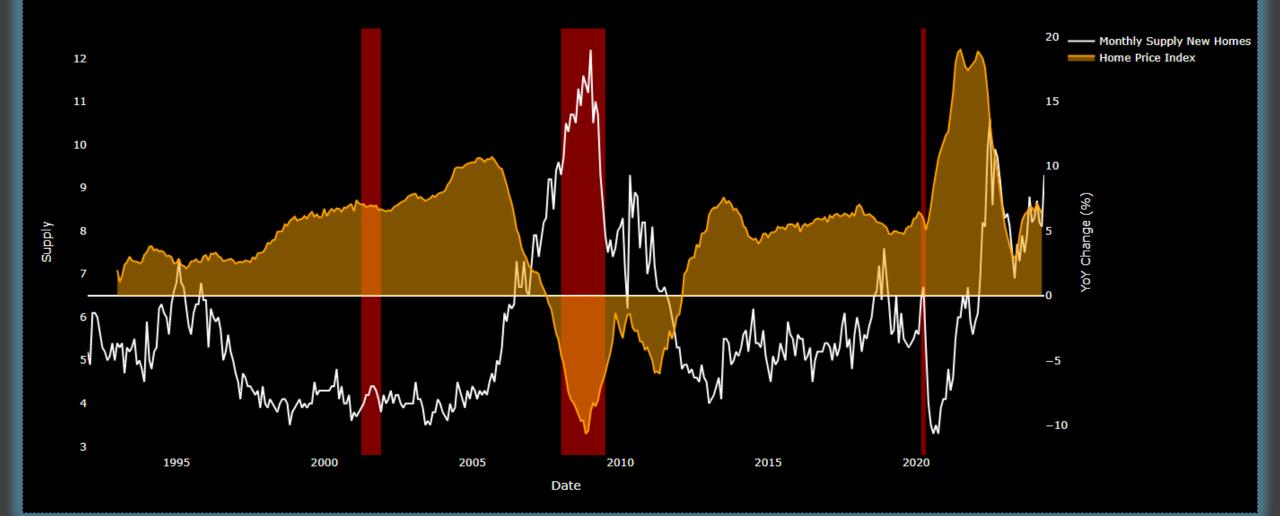
Units for Sale as a Percent of Total Housing Pipeline in the United States





Traditionally months of supply reaching 9 has been enough to impact prices

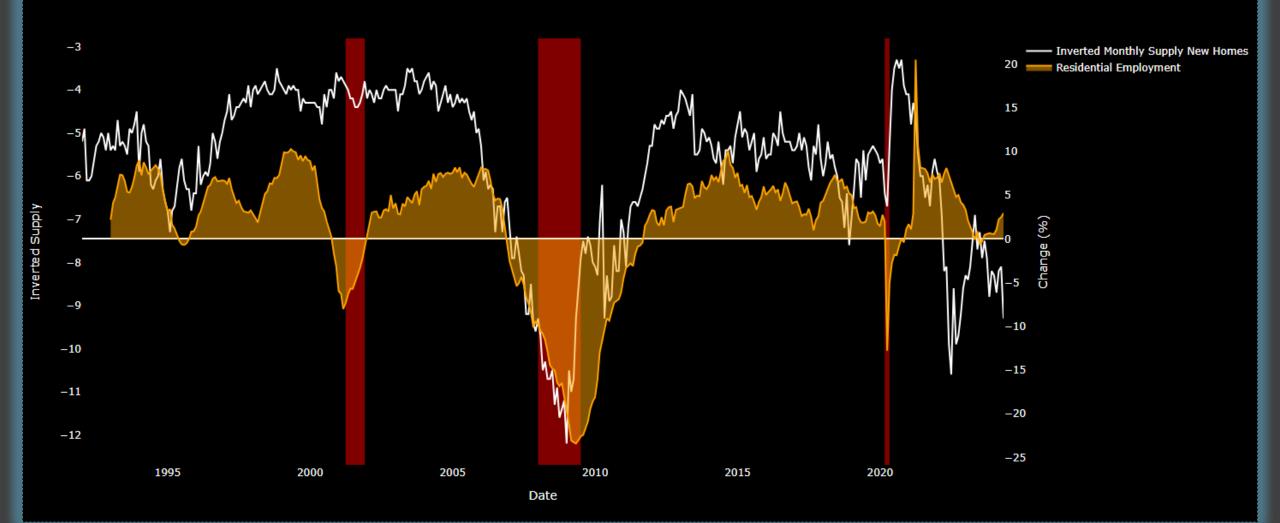
Monthly Supply of New Homes & House Price Index Year-over-Year





Months of supply (inverted) when rising has also negatively impacted employment within the construction space

Monthly Supply of New Homes (Inverted) & Residential Employment Year-over-Year

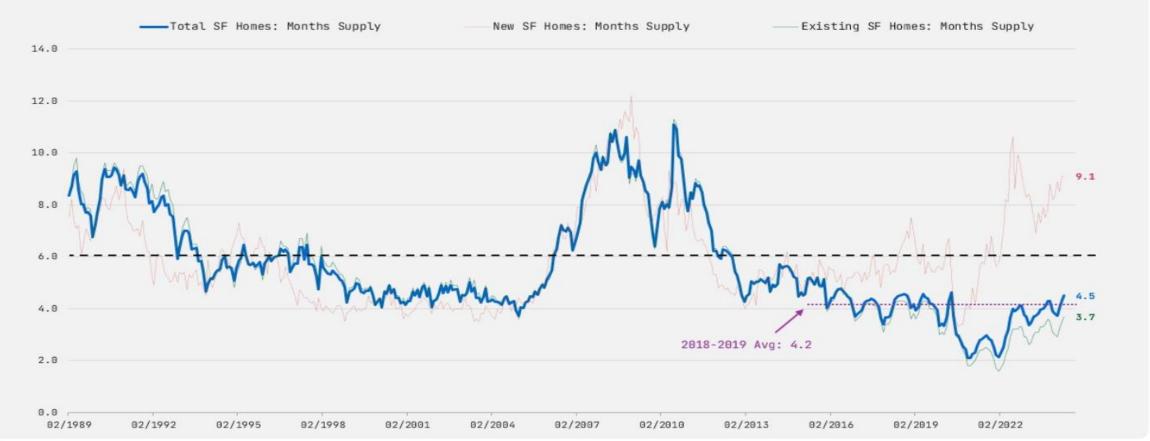






New and existing homes for sale tends to be highly correlated. Due to a large portion of the country locking in rates sub 3% the existing home market has completely frozen with 7% rates. New homes rising to 9 months of supply with more supply set to come to market creates a setup where lower rates unlocking supply of existing homes will push supply above its long-term average and likely overwhelm demand, bringing down prices

Months Supply of Total US Single-Family Housing







SPDR S&P Homebuilders ETF





iShares U.S. Home Construction ETF

Earnings projections for FY 24 are negative and a top looks like its forming within homebuilding stocks



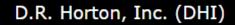


S&P 500, ITB, and XHB

Both XHB and ITB are up 280% since the start of 2020 while the S&P 500 had returned 136%







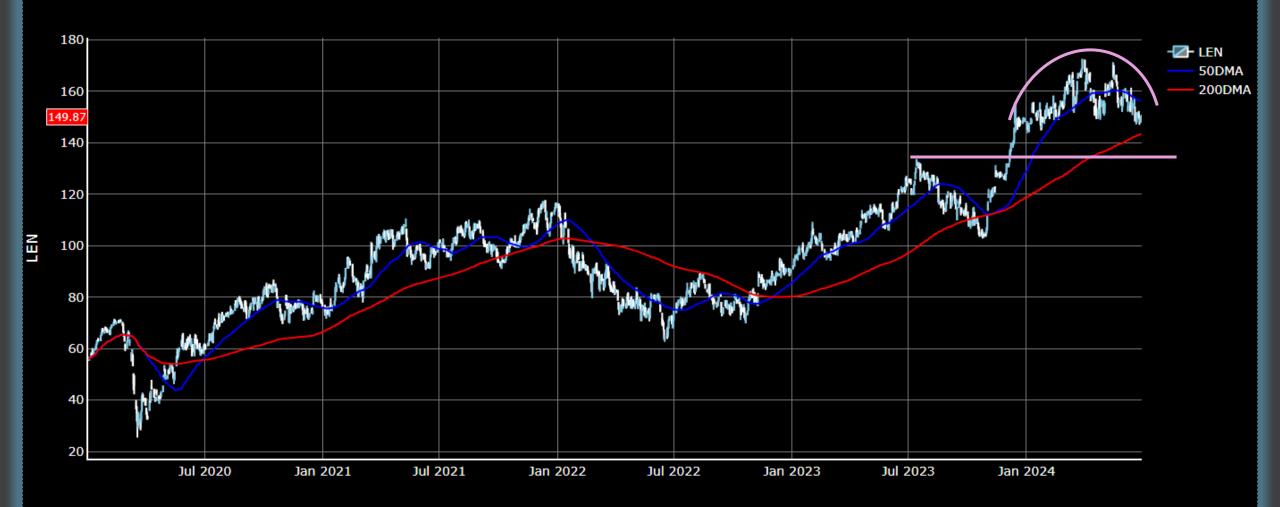
D.R. Horton has support at its 200 DMA. Below that you would be looking at \$128 for initial support



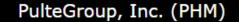


Lennar Corporation (LEN)

Lennar has a similar setup with support at \$133







Pulte has held up a little better but has the same pattern as other builders and more to fall if it breaks through its moving averages. Support is at \$85





Pulte peaked at 130%, Lennar and D.R. Horton at just under 100% year-overyear in 2023 and are still positive for 2024. But the rate of change is coming down

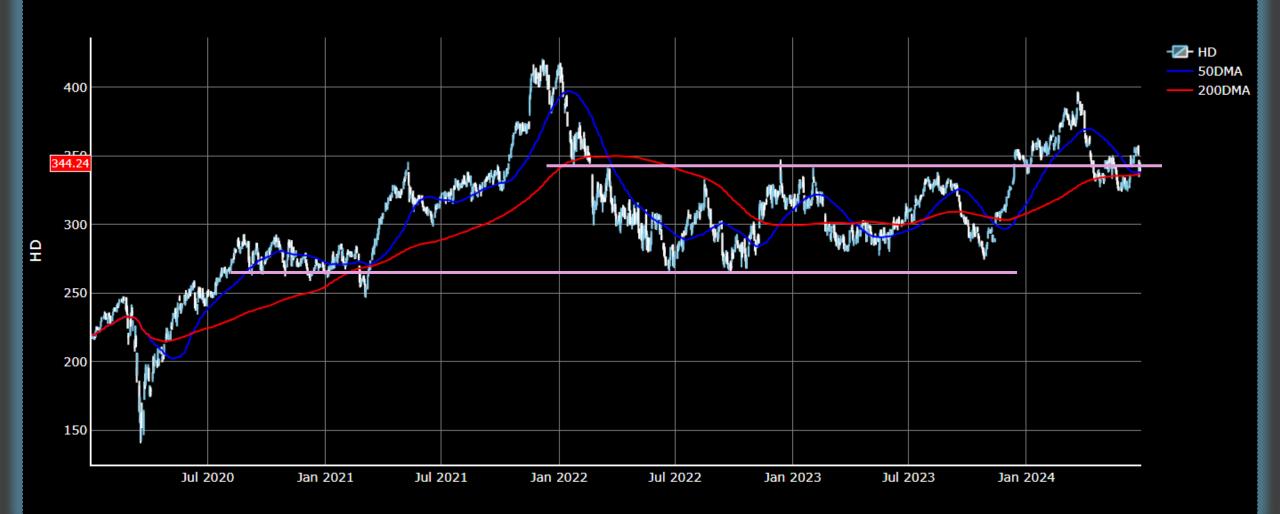
Year-Over-Year Percentage Change of LEN, PHM, and DHI





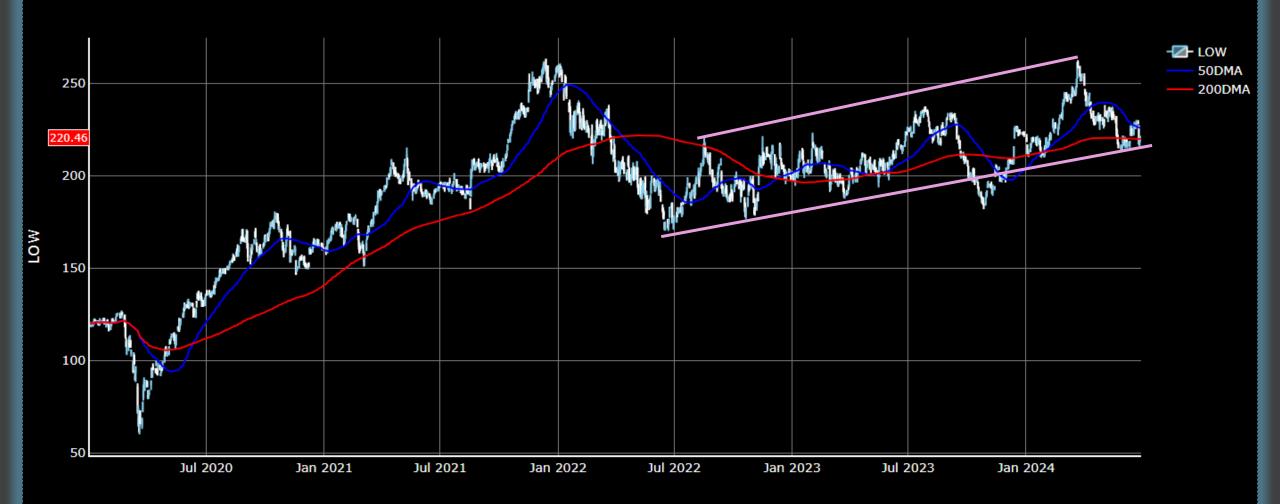
Early in the pandemic companies that provided materials for home repairs were outperformers as everyone was stuck at home. Since their peak in late 2021 they have traded sideways

The Home Depot





Lowe's Companies, Inc.





POOL Corporation





Sherwin-Williams (SHW)





Since the start of 2023 Homebuilders outperformed and housing related stocks outside of Lowes performed in line with the S&P 500

Housing Related Stocks





Conclusion

• The supply of new homes on the market/coming to market is at elevated levels relative to recent history. It makes up only 15% of the housing market. Existing supply (the other 85%) is down at just under 4 months. Meaning the overall months of supply stands at 4.5, with 6 months being the long-term average. A likely catalyst even though counterintuitive is lower rates. That will unlock existing home supply and push overall supply to levels high enough to bring home prices lower

• The key to being accurate on the timing of the recession everyone was calling for in 2023 will be construction employment. We have seen slowing within building permits and housing starts but there is lag between that data and layoffs taking place. Once the remaining homes started and units under construction move to completed status, less housing in the pipeline will lead to lower employment. A 10% drop in construction employment would be a recession signal but just seeing rollover in jobs would be a signal to de-risk. This data has been a leading indicator of the business cycle historically

• Homebuilder stocks look like they've reached a peak on a technical and fundamental basis. The XHB (Homebuilder ETF) is 13% off its peak and our analysis suggests it could fall another 12%



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