Housing Affordability and Supply-Chain Challenges

HBA of Greater Cincinnati HBA of Dayton November 23, 2021

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Macro/Housing Outlook



Vaccine/natural immunity are supporting economic growth

Delta wave eased but winter increases occurring



Solid growth in 2021, with increases for interest rates

Growth slowing in 2022 and 2023



Building materials a key concern
Supply-chains are a mess



Single-family, remodeling and multifamily construction gains for 2021

Telecommuting and other factors driving a suburban shift

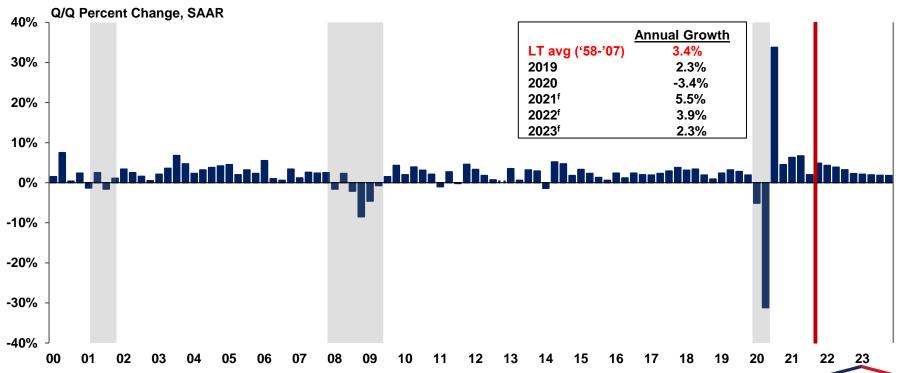


Housing affordability risks erosion in 2022 and 2023

Communities with ability to add affordable housing will grow



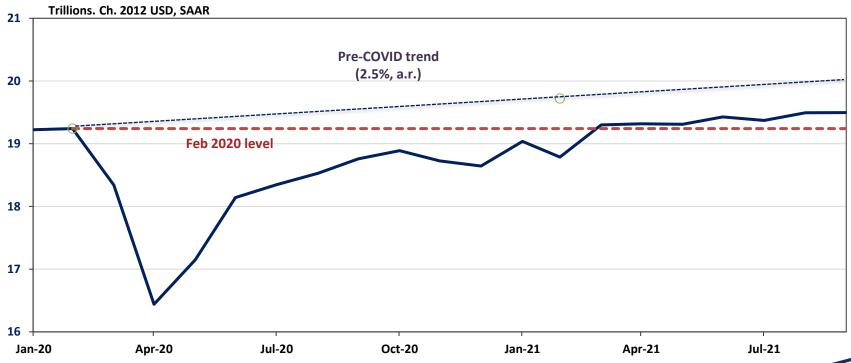
GDP Growth – Solid Growth for 2021 Growth slowing over next two years







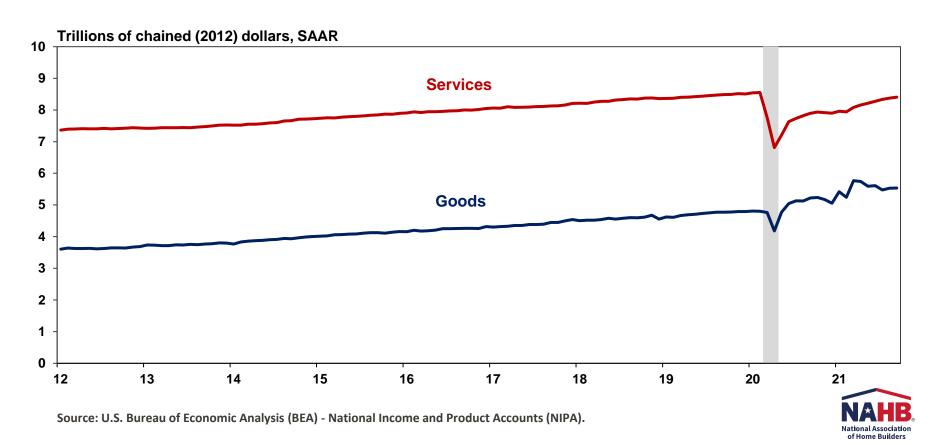
Has the Economy Recovered? GDP already above Feb 2020 level



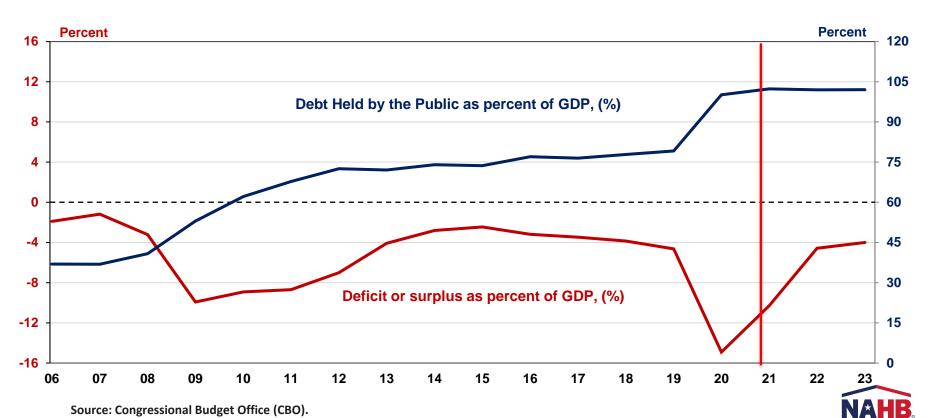




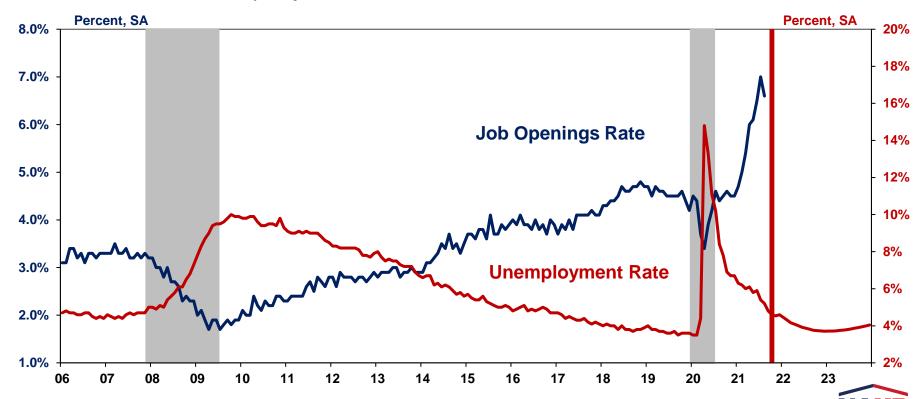
Monthly Goods and Services: GDP Data Services still down, goods higher



Government Deficits Growing Reaching unsustainable levels

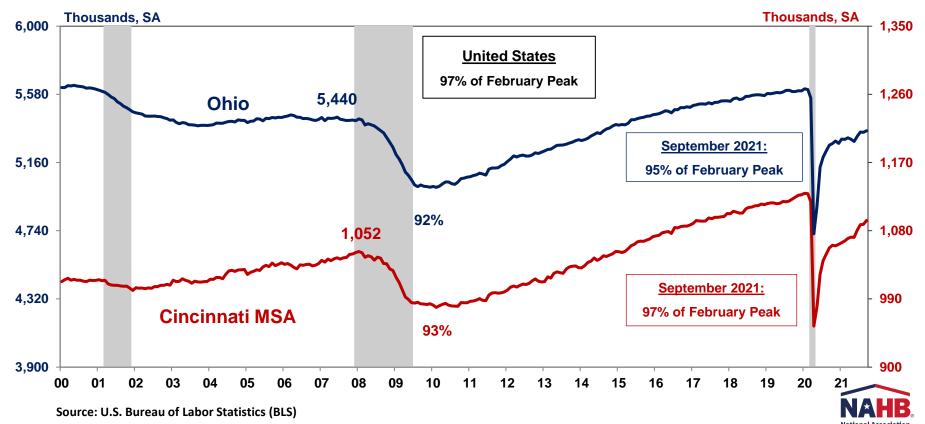


Rise of Job Openings More than 10 million open jobs



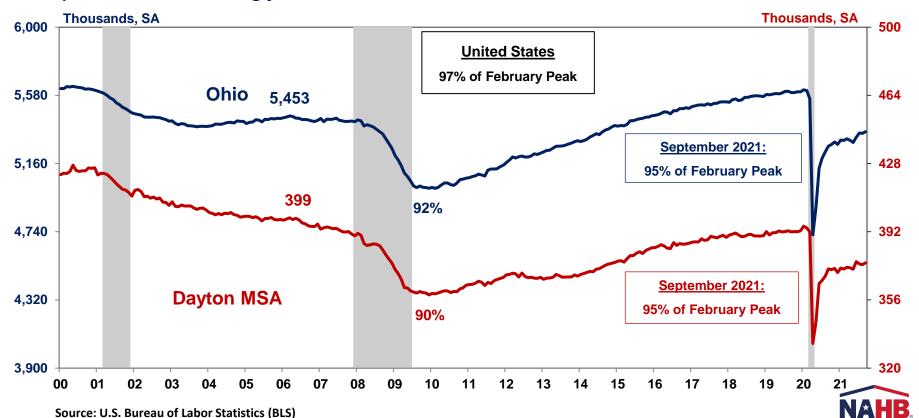
Source: U.S. Bureau of Labor Statistics (BLS) and NAHB forecast.

Payroll Employment
Cincinnati MSA recovering from COVID-19 recession



Payroll Employment

Dayton MSA recovering from COVID-19 recession

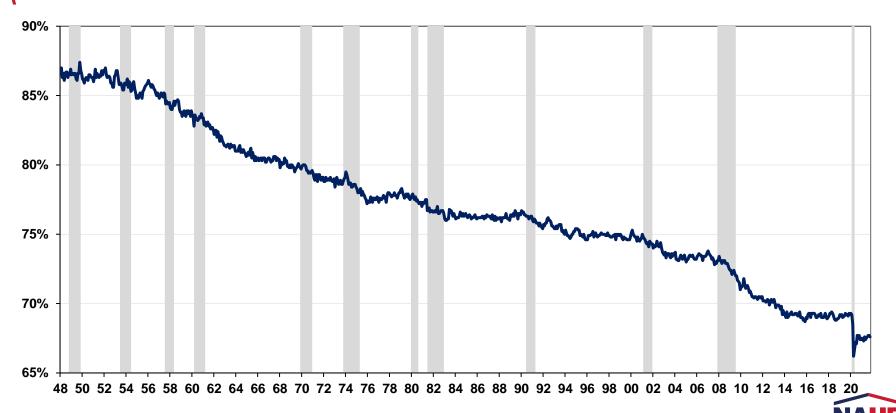


Labor Force Participation Rate
Labor force participation must be repaired as part of job market recovery



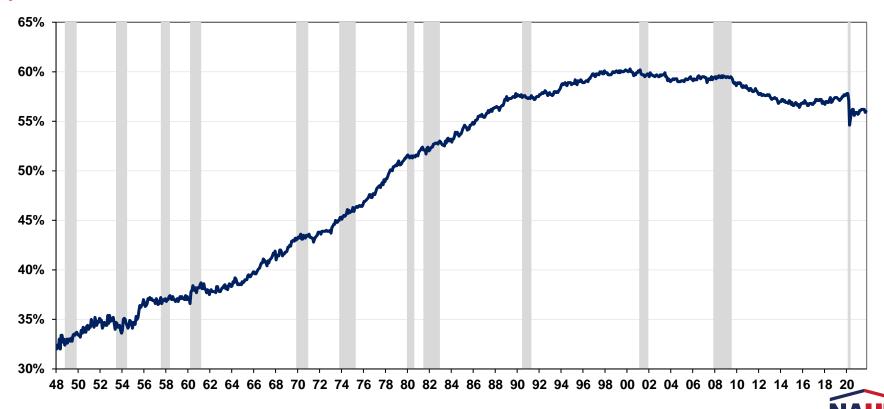
Source: U.S. Bureau of Labor Statistics (BLS).

Labor Force Participation Rate -- Men



Source: U.S. Bureau of Labor Statistics (BLS).

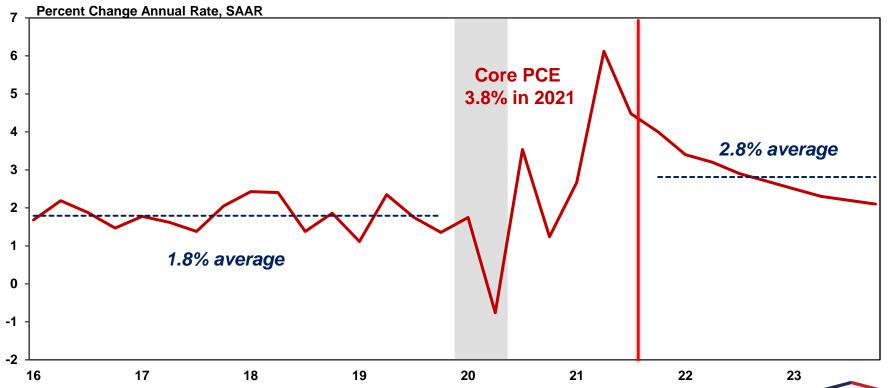
Labor Force Participation Rate -- Women



Source: U.S. Bureau of Labor Statistics (BLS).

Core Inflation

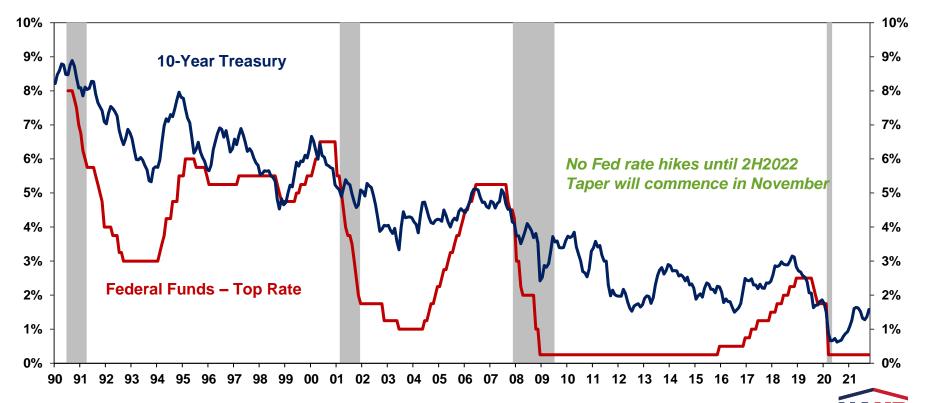
Inflation surged to a 31-year high in October







Fed Funds Rate — Fed All In on Supporting Economy Effective 0% fed funds rate and \$40 billion a month in MBS purchases supporting housing

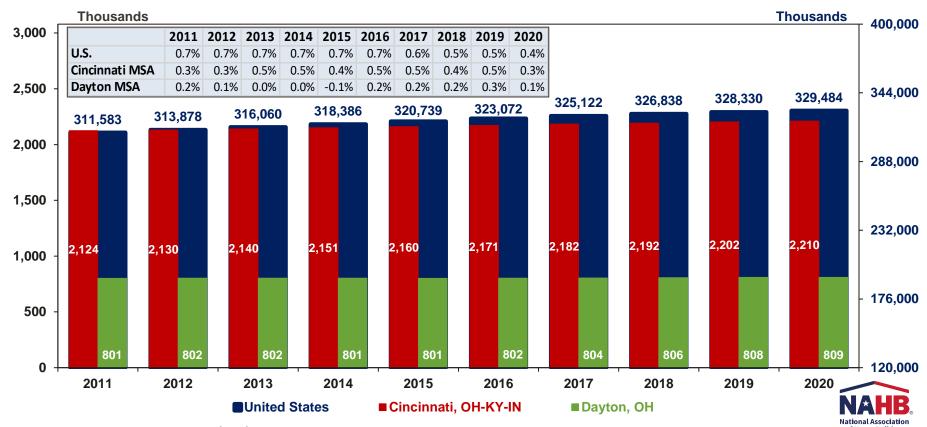


Interest Rates Will Trend Higher with Recovery Federal Reserve is tightening monetary policy



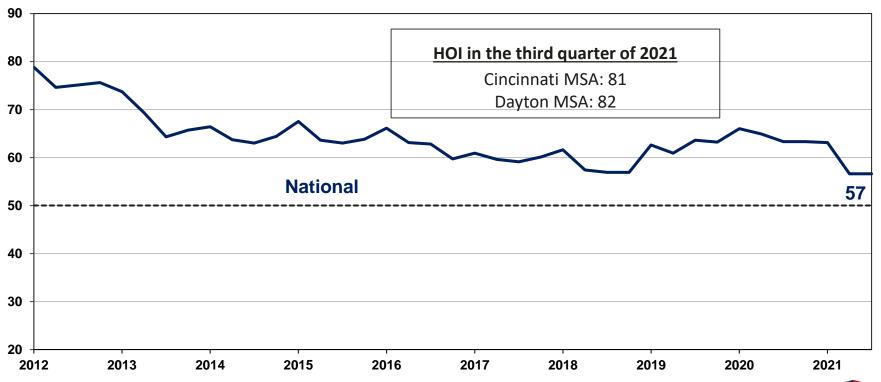
Source: Federal Reserve and Freddie Mac data and NAHB forecast.

Population Growth
Cincinnati and Dayton MSAs population growth slower than national rates



Source: U.S. Census Bureau (BOC).

Housing Affordability Declines? NAHB/Wells Fargo HOI Lower



Source: NAHB/Wells Fargo Housing Opportunity Index (HOI).

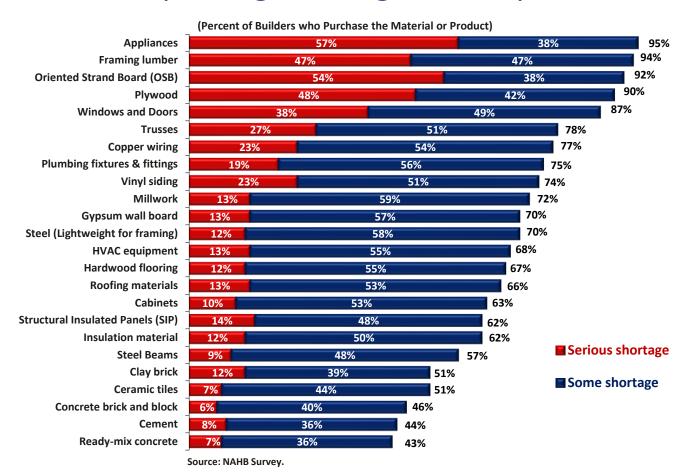


Supply-Side Factors



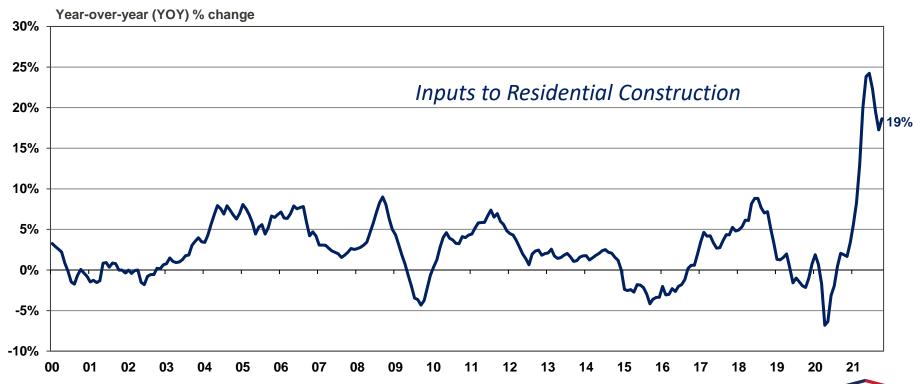


Builders Reporting Shortages in May 2021





Building Materials - Residential Construction Cost

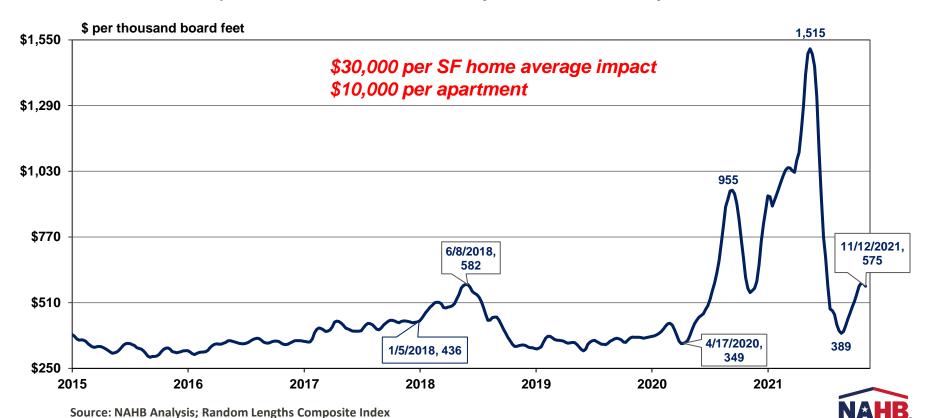


Source: U.S. Bureau of Labor Statistics (BLS): Producer Price Index (PPI)



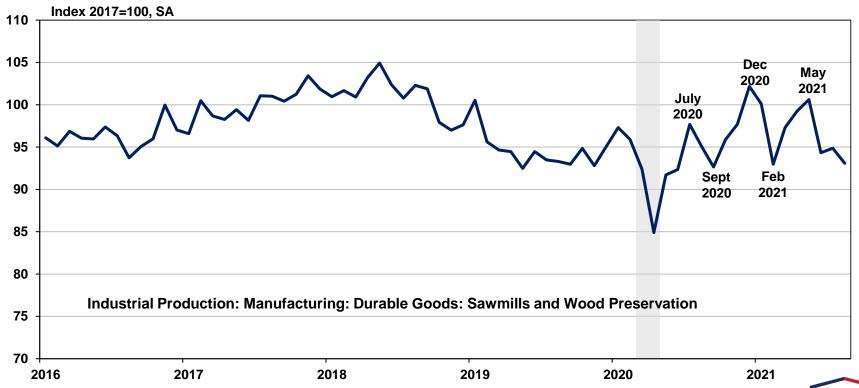
Lumber Prices Edged Higher

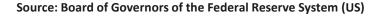
Current November price \$575; decreased 2% after two months of increases



of Home Builders

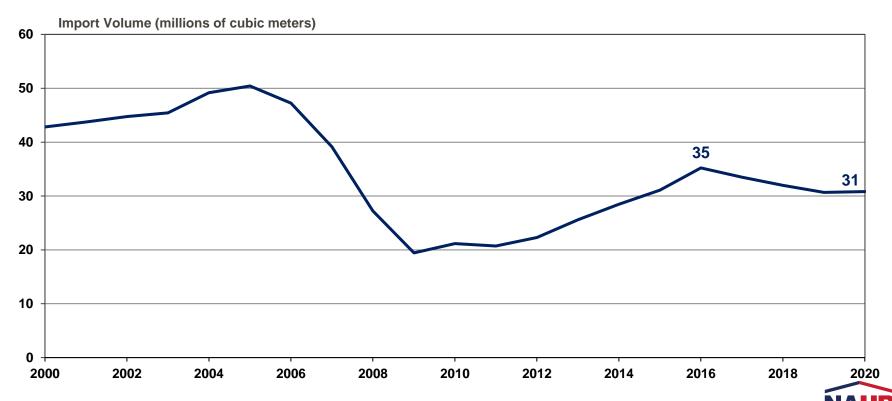
Domestic Sawmill Output
In September, sawmill employment is 3.7% higher than a year ago







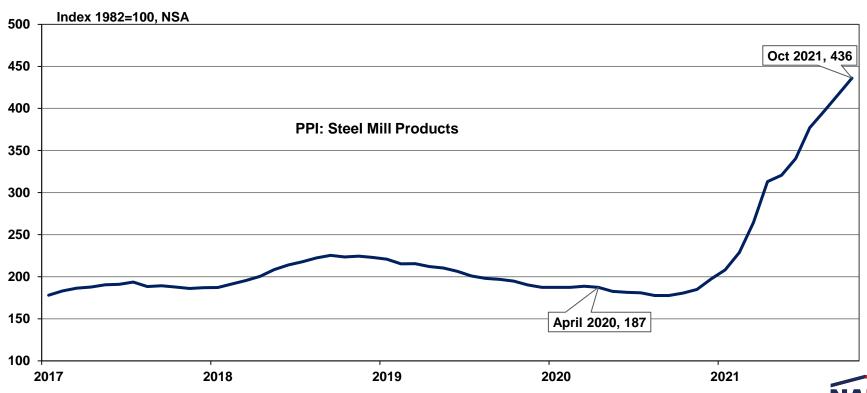
Softwood Lumber Imports from Canada



of Home Builders

Source: DataWeb, U.S. International Trade Commission

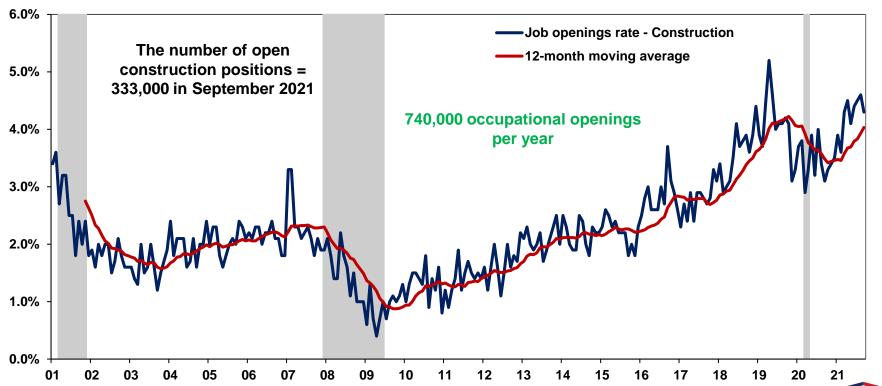
Building Materials Prices — Steel and Others Steel prices increased 142% in a year; copper +35%, aluminum +32%, gypsum +26%







Labor - ConstructionSkilled labor shortage persists; 113,200 net gain for residential construction since Jan 2020







Average Hourly Wages for Residential Building Workers

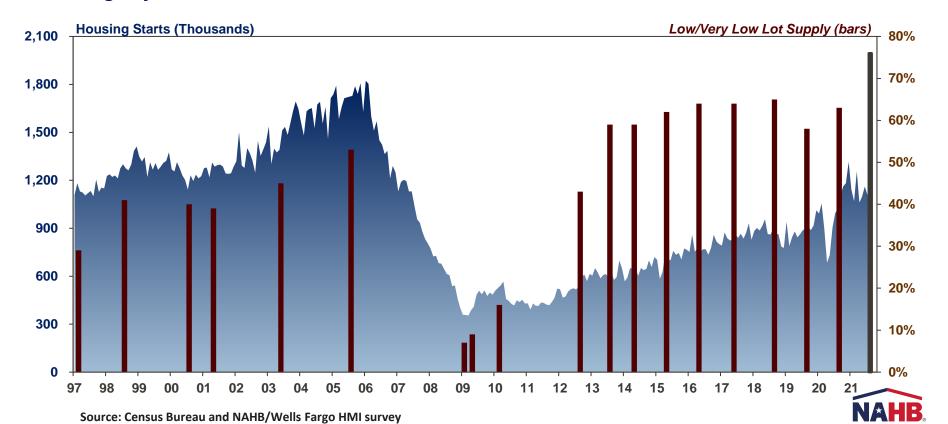




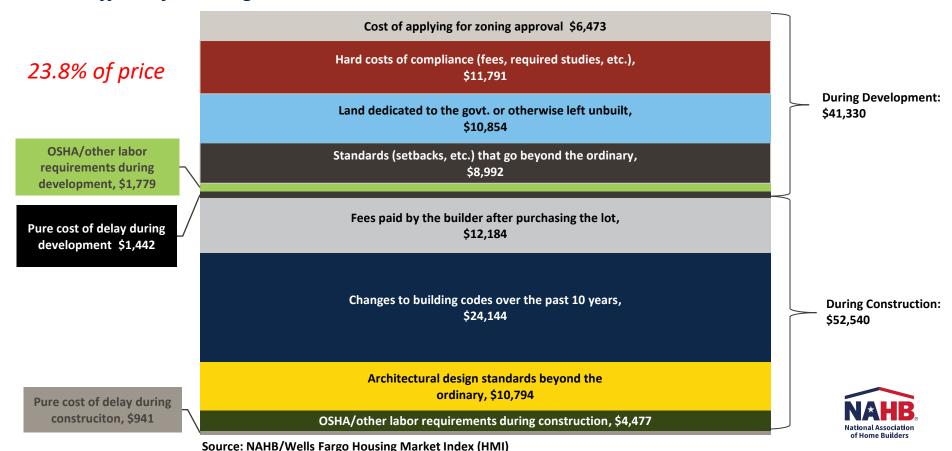


Lot Shortages Reported by Single-family Builders

Shortage of lots worse than ever, hit a new record in 2021



Regulatory Costs \$93,870 Per New Home (11% Gain 2016 to 2021) Total effect of building codes, land use, environmental and other rules

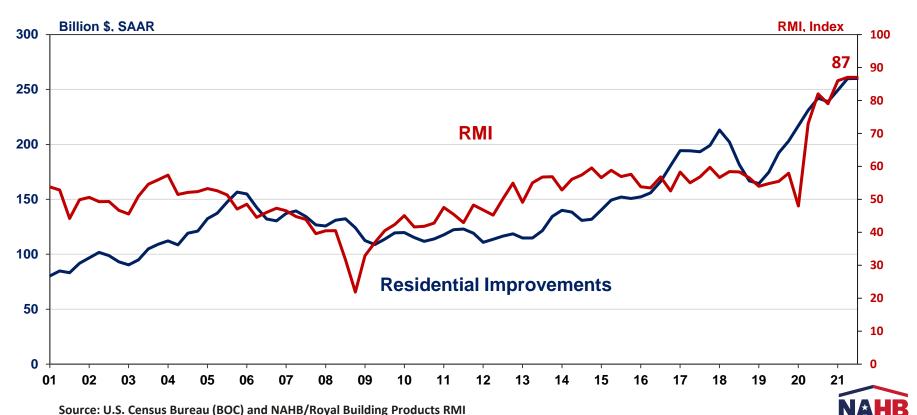


Construction Outlook

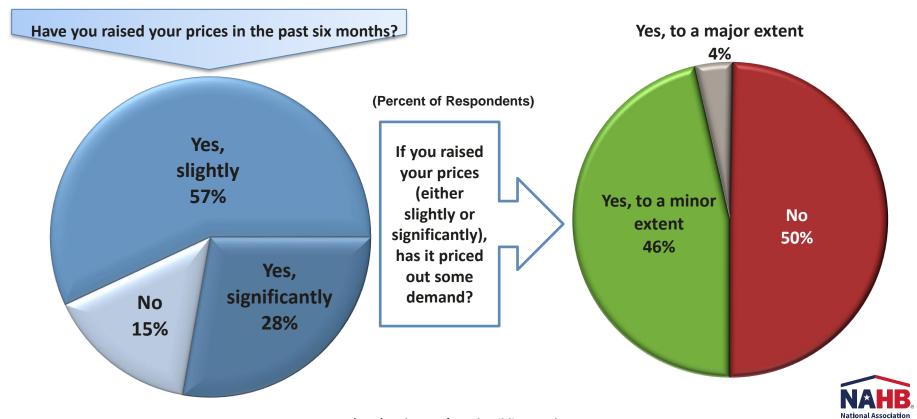




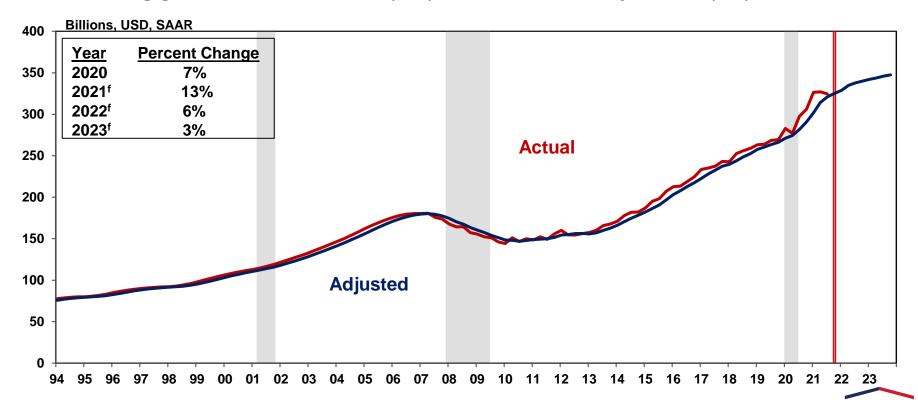
NAHB/Royal Building Products Remodeling Market Index Positive residential remodeler's sentiment for projects of all sizes



Remodeling: Higher Prices And Pricing Out Demand

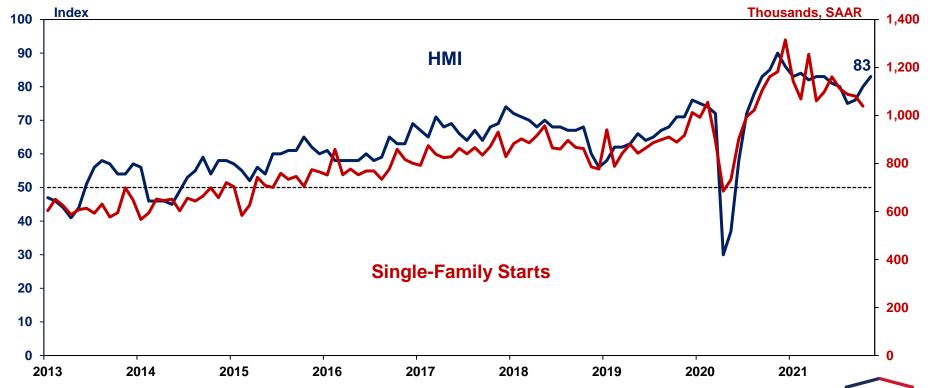


Residential Remodeling
Remodeling growth will continue as people use their homes for more purposes



Source: U.S. Bureau of Economic Analysis (BEA): National Income and Product Accounts (NIPA) and NAHB forecast. Note: In the analysis, 1-year moving average is used for adjusted data to smooth the trend.

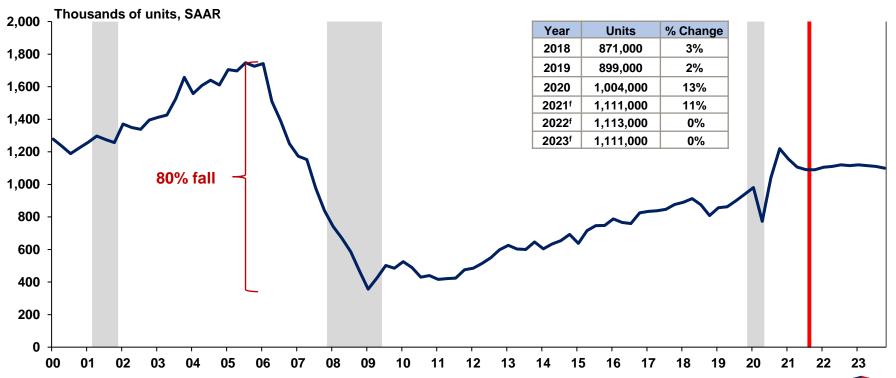
NAHB/Wells Fargo Housing Market Index (HMI) Strong demand boosts builder confidence in November despite supply-chain disruptions



Source: Census Bureau and NAHB/Wells Fargo HMI survey



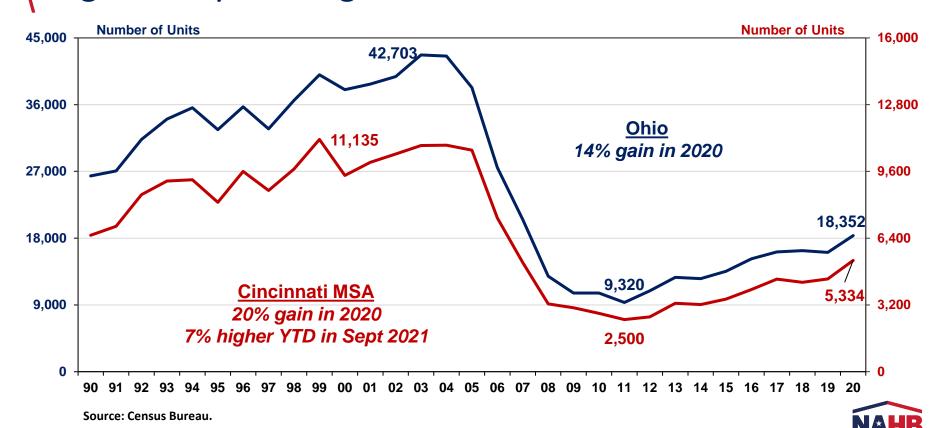
Single-Family Starts
Growth slows in 2022 and 2023, returning to long-run trend but 25% higher than 2019



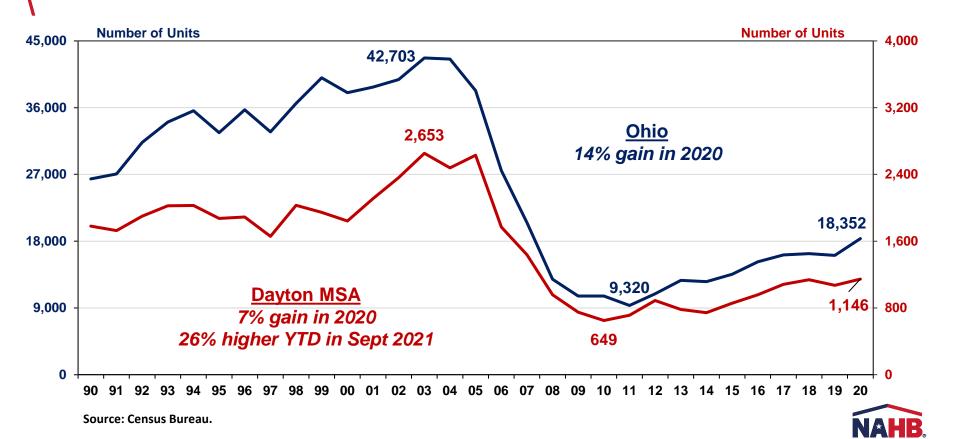
Source: U.S. Census Bureau (BOC) and NAHB forecast



Single-Family Building Permits — Ohio and Cincinnati MSA

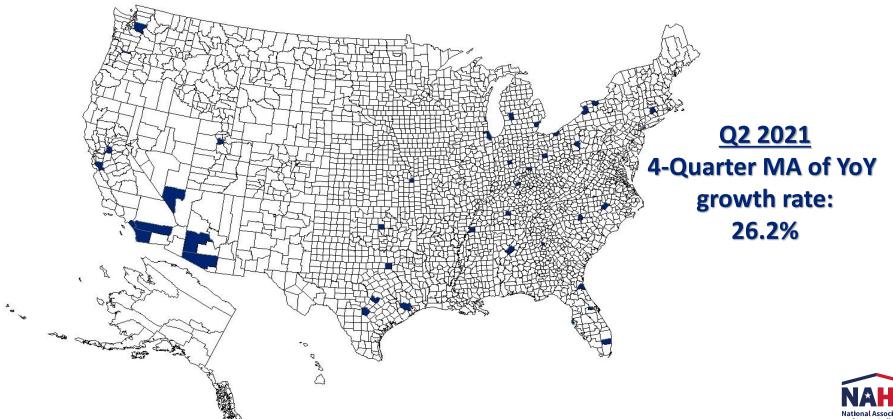


Single-Family Building Permits — Ohio and Dayton MSA



NAHB Home Building Geography Index

17.0% of single-family construction takes place in Large Metro – Core County

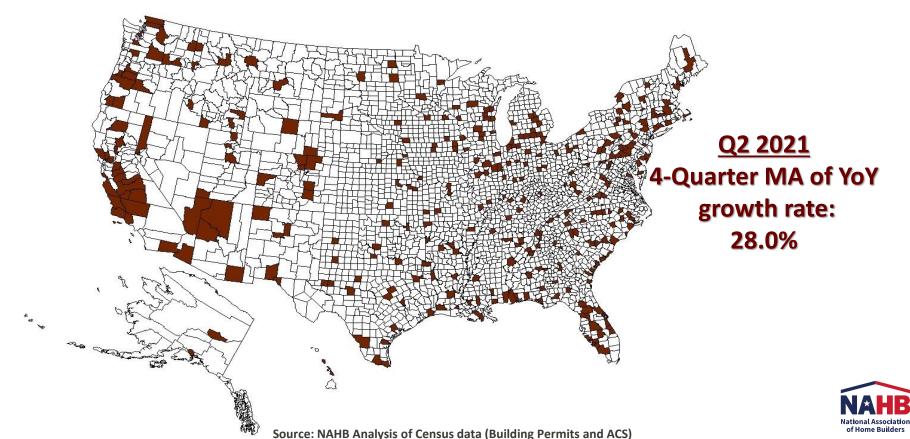




Source: NAHB Analysis of Census data (Building Permits and ACS)

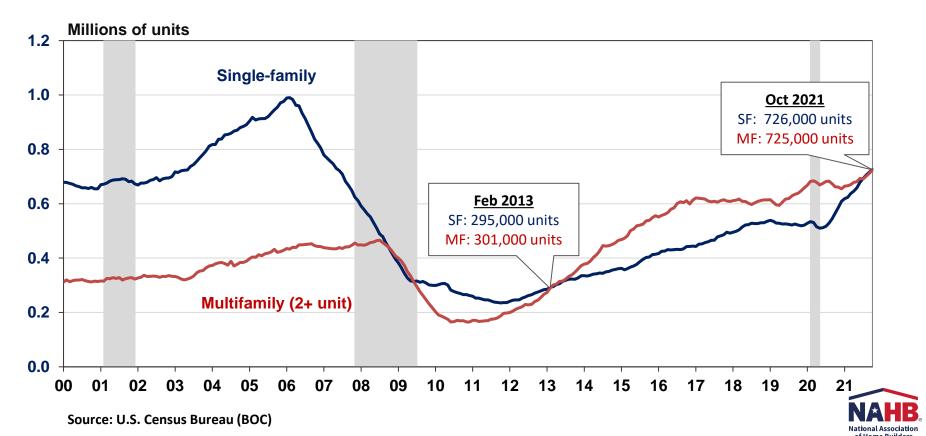
NAHB Home Building Geography Index

28.9% of single-family construction takes place in **Smaller Metro – Core County**

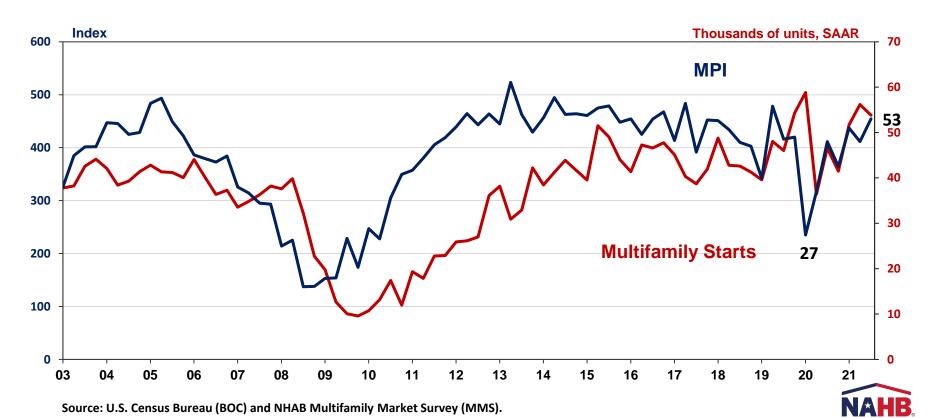


Housing Units under Construction

Equal number of single-family and multifamily units for first time since 2013

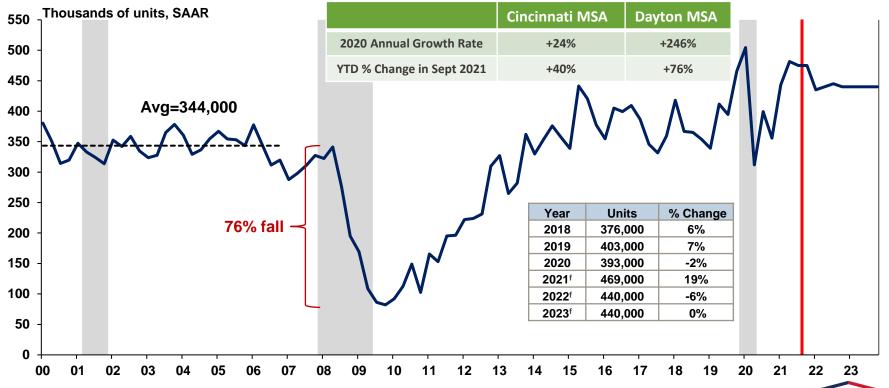


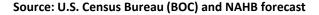
NAHB Multifamily Production Index
Sentiment on multifamily production and occupancy improved in the third quarter



Multifamily Construction Stabilizing After Strong Rebound

Multifamily growth for low-rise and low-density development







Thank you

Questions?

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