

Economic Update for the Virtual Mutual Forum

Economic & Policy Analysis September 22, 2020

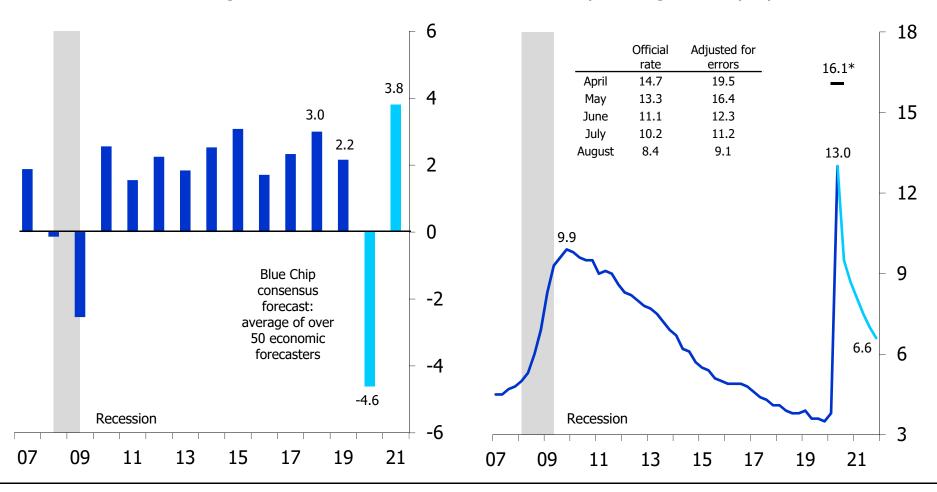
Agenda

- Economy beginning to recover but activity remains below pre-pandemic levels
- Tracking loan performance is complicated with credit reporting moratorium and forbearance
 - Despite June's overall 1.7% mortgage delinquency rate, over
 8% of borrowers missed their payment
- Low rates and tight housing supply support home price appreciation through COVID-19 crisis

Consensus forecasts deep contraction in 2020, unemployment rate to remain high past 2021



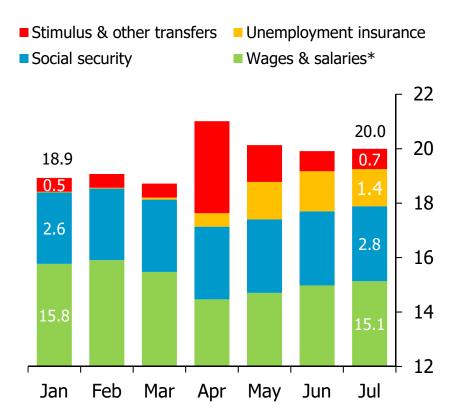




Sources: Bureau of Economic Analysis; Bureau of Labor Statistics; Blue Chip (September 2020) *Quarterly official U.S. unemployment rate adjusted for misclassification error noted by BLS.

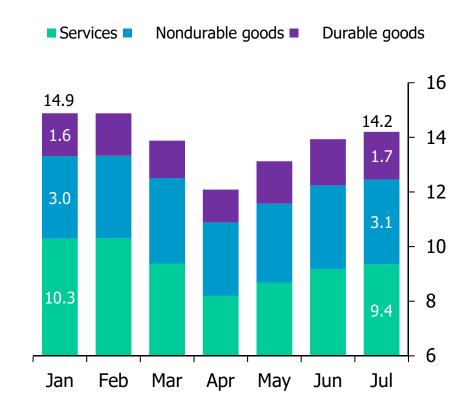
Government transfer payments support incomes; personal expenditures remain below Jan level

Personal income, \$ trillions



^{*} Wages & salaries includes proprietors' income, rental income, and receipts on assets, less contributions for government social insurance

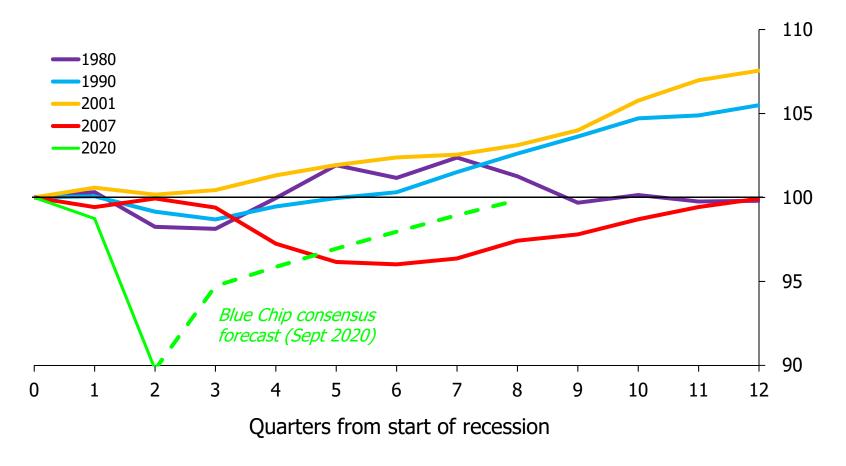
Personal expenditures, \$ trillions



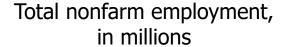
Source: Bureau of Economic Analysis Analytics (data updated through July 2020)

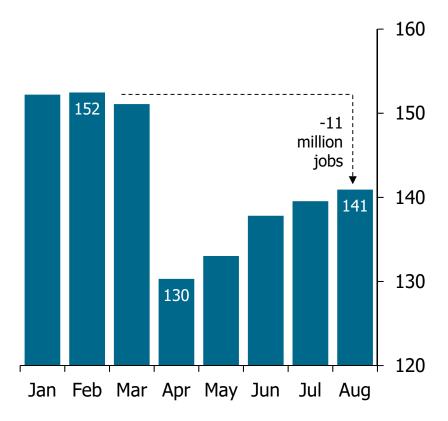
Under consensus forecast real GDP does not reach pre-recession levels for eight quarters

Real GDP change by recession, pre-recession quarter = 100

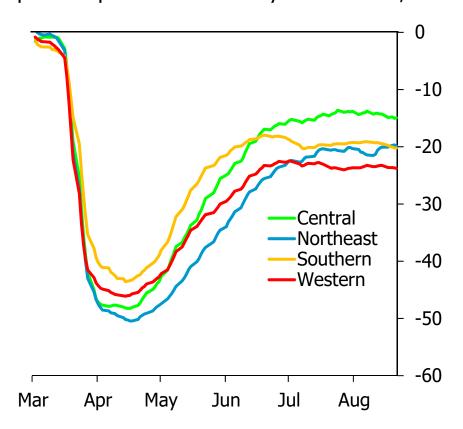


Employment remains 11 million jobs below its pre-pandemic peak as business re-openings stall





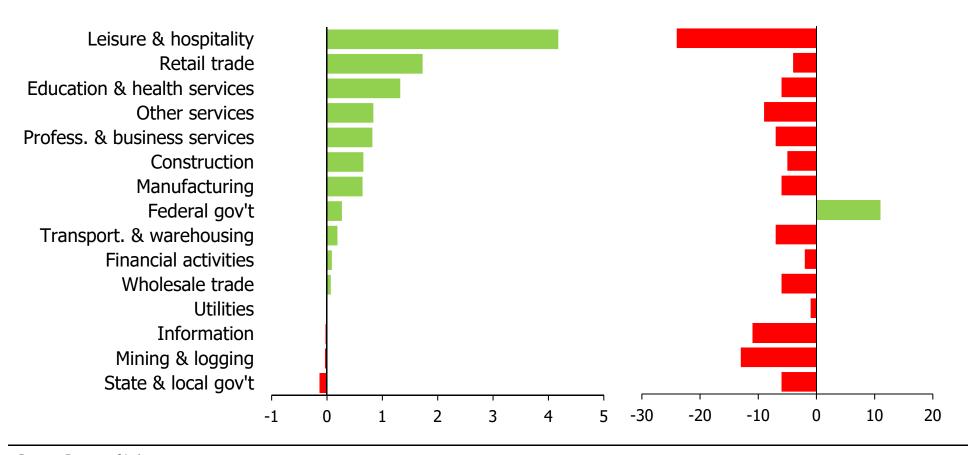
Share of small service industry businesses open compared to Jan '20 by OCC District, %



Leisure & hospitality led job gains since April; nearly all industries still below January levels

April '20 to Aug '20 change in employment by industry, in 000's

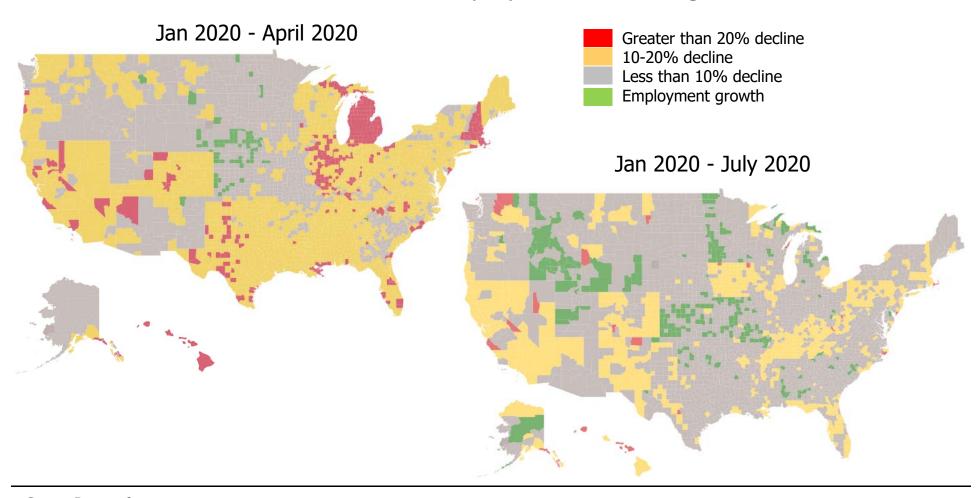
Percent change in employment by industry from Jan '20 to Aug '20, %



Source: Bureau of Labor Statistics (data through August 2020)

Employment improves for many counties since April, but most well below January levels

Total nonfarm employment, % change



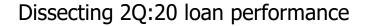
Source: Bureau of Labor Statistics (data through July 2020)

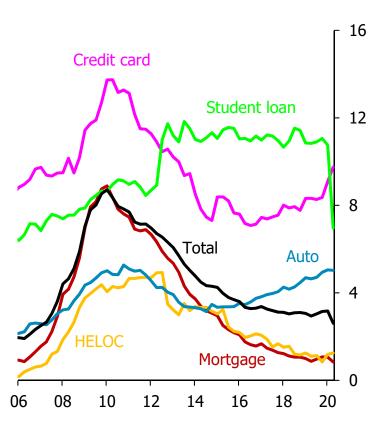
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CARES Act complicates the interpretation of second quarter loan performance

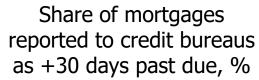
Percent of Balance 90+ Days Delinquent by Loan Type

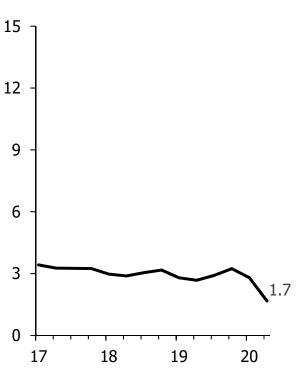




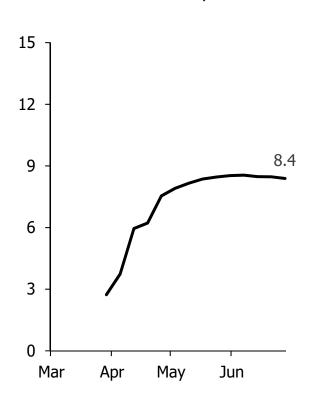
Loan type	YoY 90+ rate % chg	Notes
Mortgage	-3%	Forbearance might be categorized as delinquent on the lender's book, but typically as current on the credit reports
HELOC	14%	Rose 15bps to 1.25%, mostly due to declining balances
Auto	8%	Uptick in autos, continuing longer-term trend
Credit card	17%	Primarily due to decline in card balances
Student loan	-36%	Federal student loan borrowers automatically placed in forbearance
Total	-11%	Student loan improvement drives overall decline

Despite a 1.7% mortgage delinquency rate, over 8% of borrowers missed June's payment

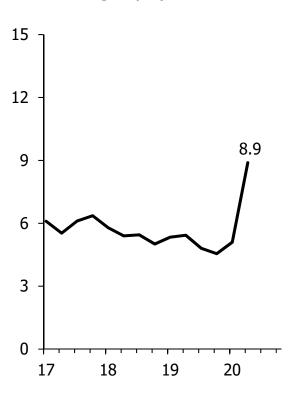




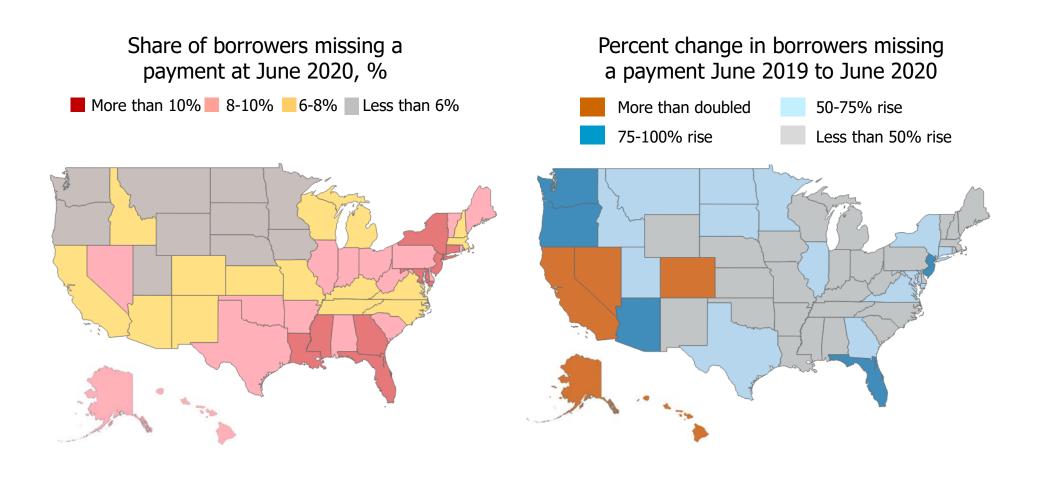
Share of loans in forbearance, %



Share of borrowers missing a payment*, %



Highest missed payment rates on east coast; AK, CA, CO, HI and NV see largest increases

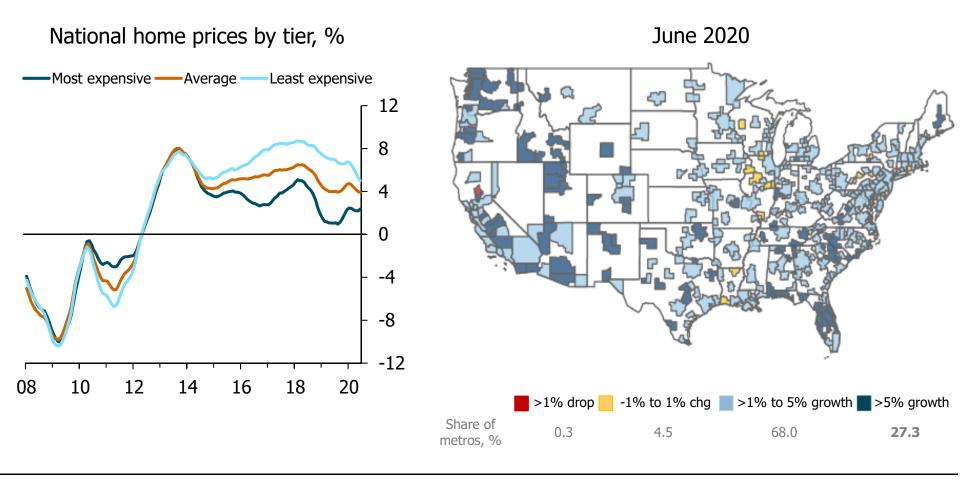


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Home price appreciation continues in June 2020; prices grew above 5% in quarter of U.S. metros

Single family home price, year-over-year percent change

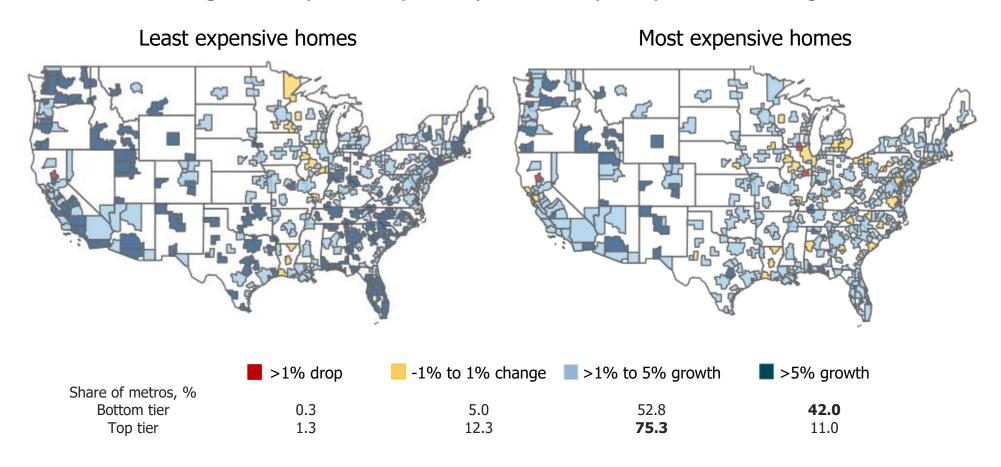


Source: Black Knight (data through June 2020)

Note: Table represents prices of non-distressed transactions.

Metro-level home price appreciation stronger for cheaper homes than for most expensive homes

Single family home price, year-over-year percent change

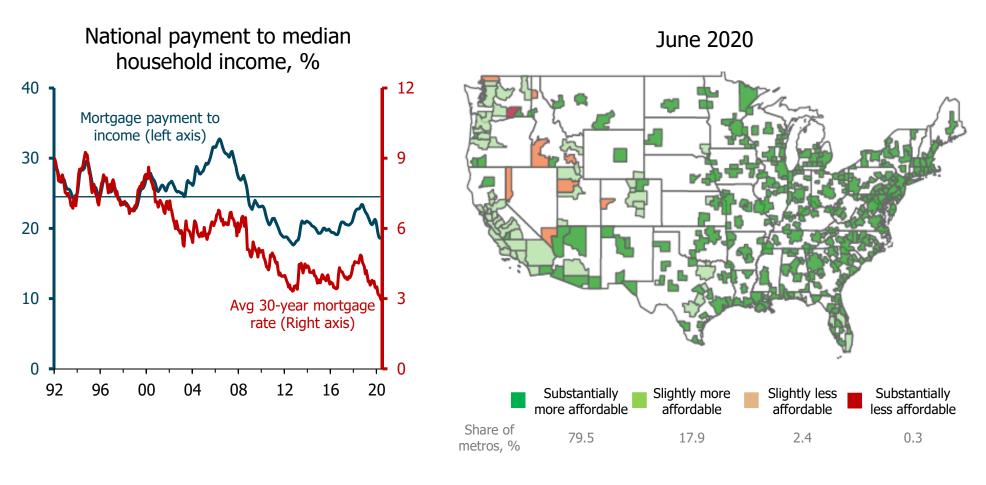


Source: Black Knight (data through June 2020)

Note: Table represents prices of non-distressed transactions. "Most expensive homes" represents homes priced at the top 20 percent of the market. "Least expensive homes" represents homes priced at the lowest 20 percent of the market.

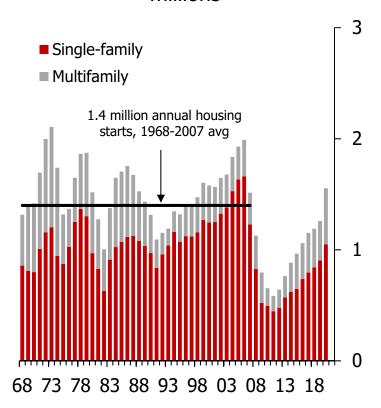
Nearly 80 percent of U.S. metros are substantially more affordable relative to historical average

Mortgage payment to median household income



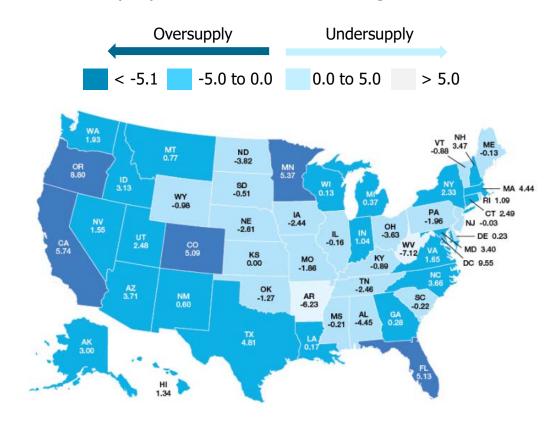
Years of below trend homebuilding creates a housing shortage that supports home prices

Monthly U.S. housing starts, millions



*2020 is annualized data through July

Freddie Mac's estimate of housing stock deficit as proportion of state's housing stock



Conclusion

- Despite recent recovery, employment remains 11 million jobs below its pre-pandemic peak with gains slowing
- Forbearance loan losses may be avoided if economic stress is temporary, otherwise losses are only delayed
- Low rates and tight housing supply support home price appreciation through COVID-19 crisis