

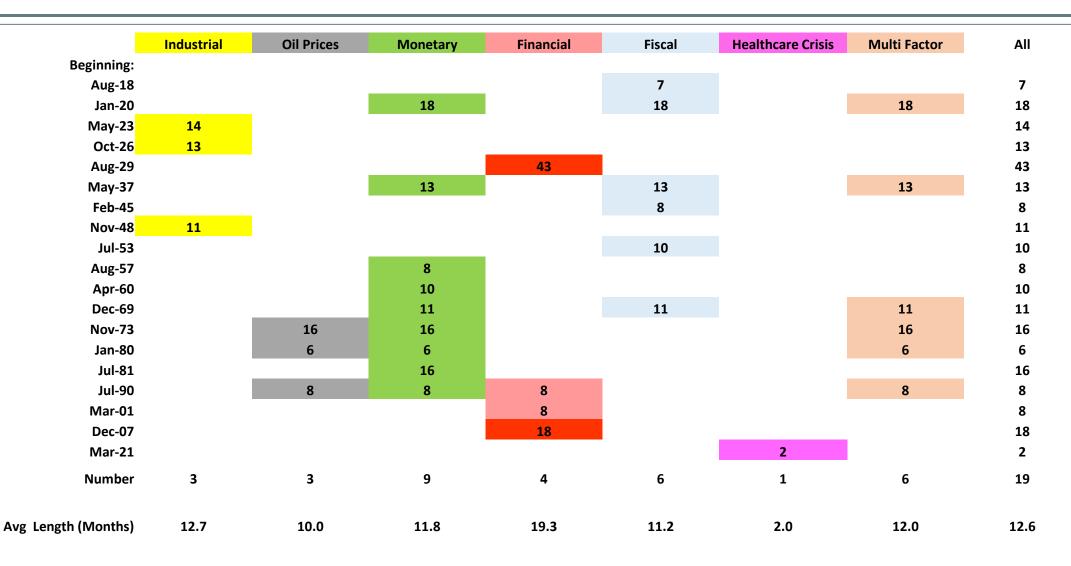
Presentation from the FHLBNY:

How Close to a Tipping Point?

Brian Jones, Vice President & Financial Economist, FHLBNY



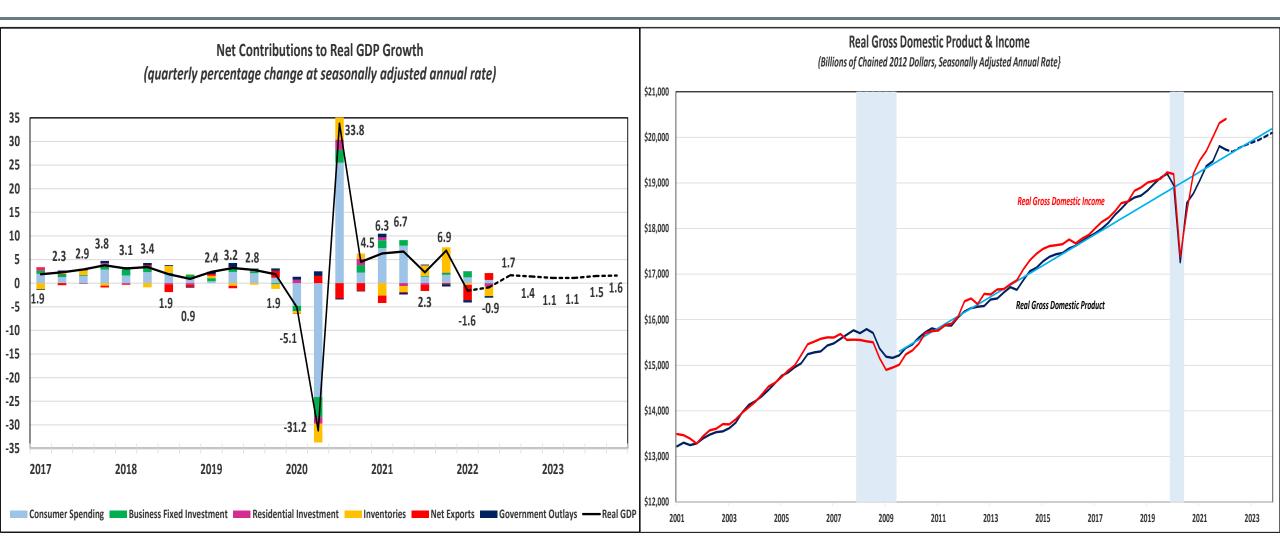
Factors Behind United States Economic Recessions Since WWI





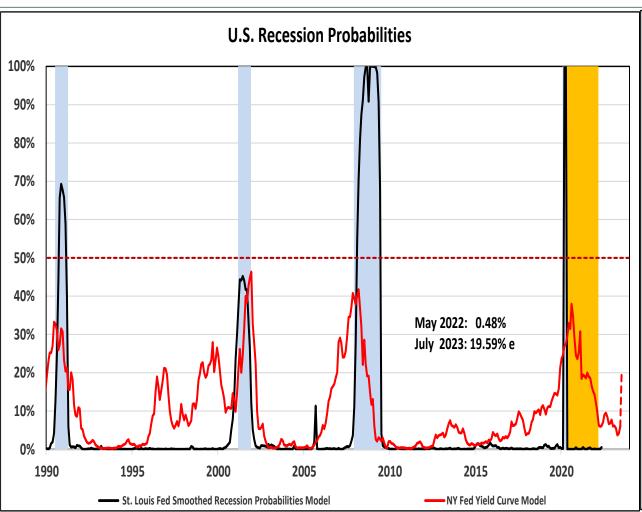
Sources: Goldman Sachs Global Investment Research, National Bureau of Economic Research and FHLBNY

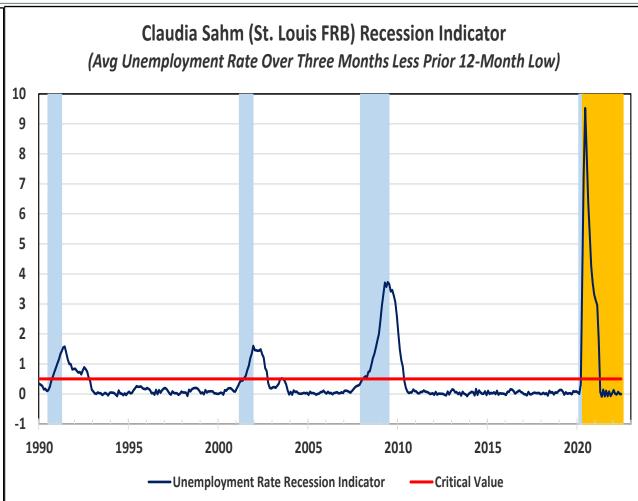
Real GDP Dipped Modestly in Q2, But Record Gap Between Real GDI and GDP Hint at Coming Upward Revisions





Economy Not Yet in Recession, But Probability of a Future Business-Cycle Downturn Rising

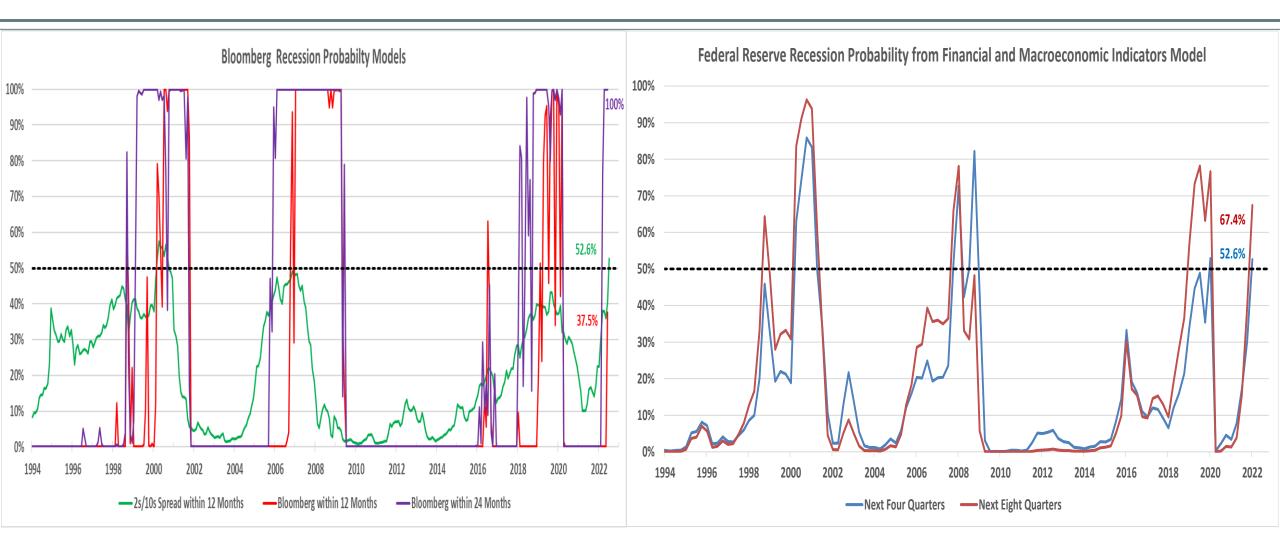








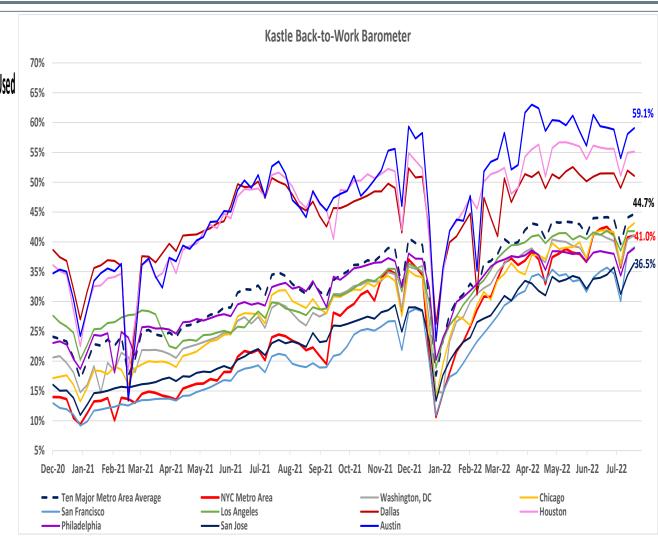
However, Estimated Future Recession Probabilities Are Rising



Sources: Bloomberg, Federal Reserve Board and FHLBNY estimates

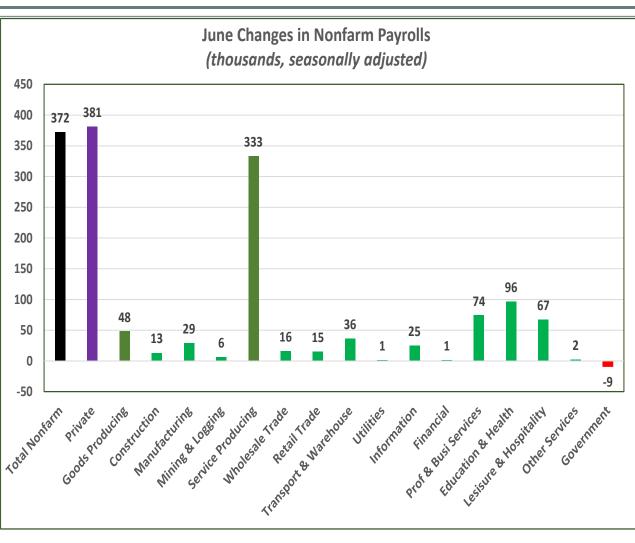
Progress Continues in Distributing Vaccines; Office Returns Moving Sideways

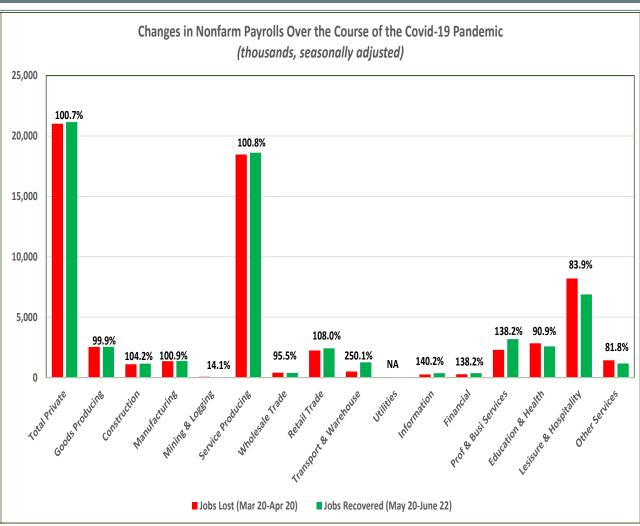
July 26, 2022	Doses Administered		% of Population	Given	Daily Rate of Doses Administered	% of Supply Use	
		1+ Dose F	ully Vaccinated	Booster Dose			
United States	599,333,639	77.8	66.4	31.8	408,520	77.0	
FHLBNY District:							
New York	40,492,239	87.9	75.1	35.1	22,215	82.7	
New York City	17,448,355	86.7	77.9	NA	1,342	NA	
New Jersey	17,812,917	87.6	73.2	36.0	10,236	75.5	
Puerto Rico	7,396,891	93.0	81.4	48.8	3,693	94.7	
Virgin Islands	148,784	81.4	65.8	20.9	31	94.6	
4							

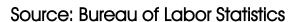




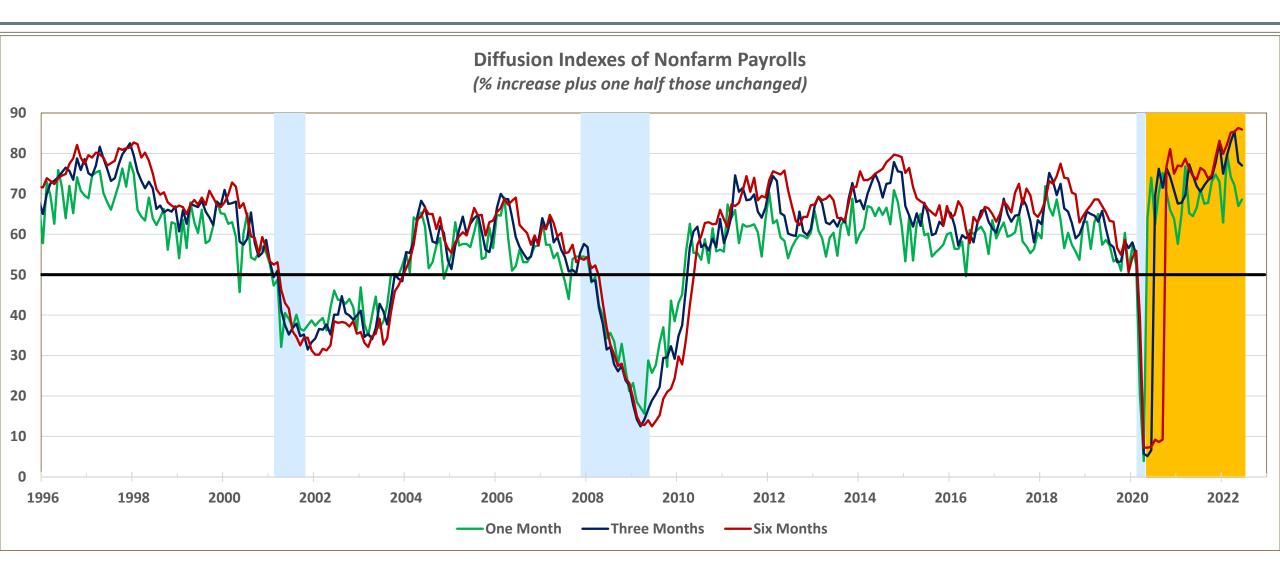
Hiring Remained Solid in June; Private-Sector Jobs Recovery Now Complete





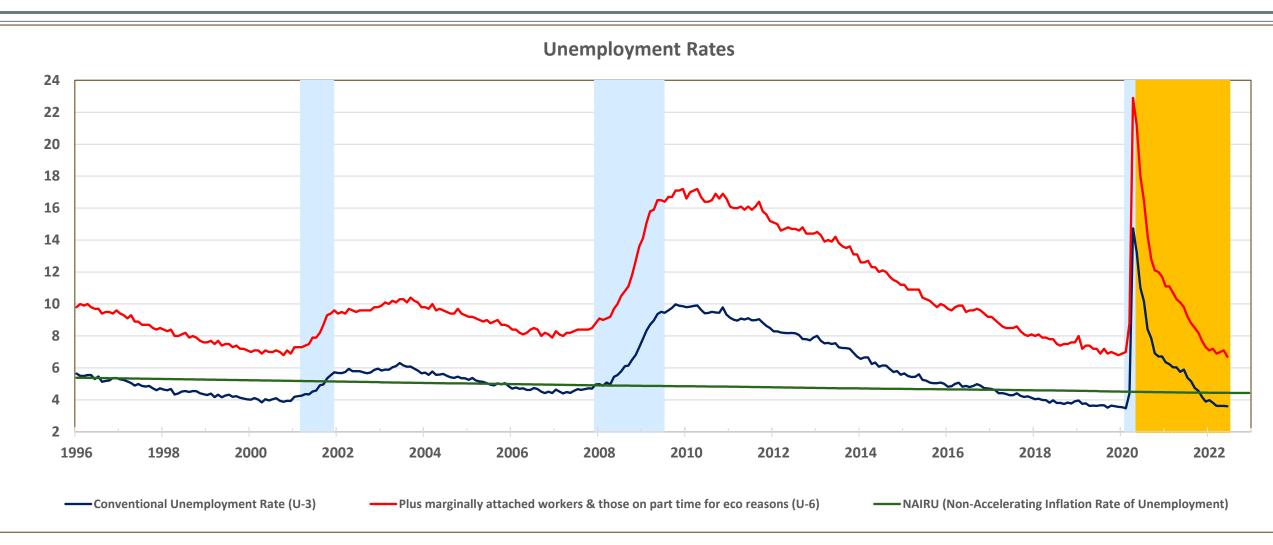


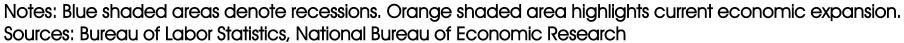
Hiring Breadth Gauges Remained Deep in Expansionary Territory Last Month



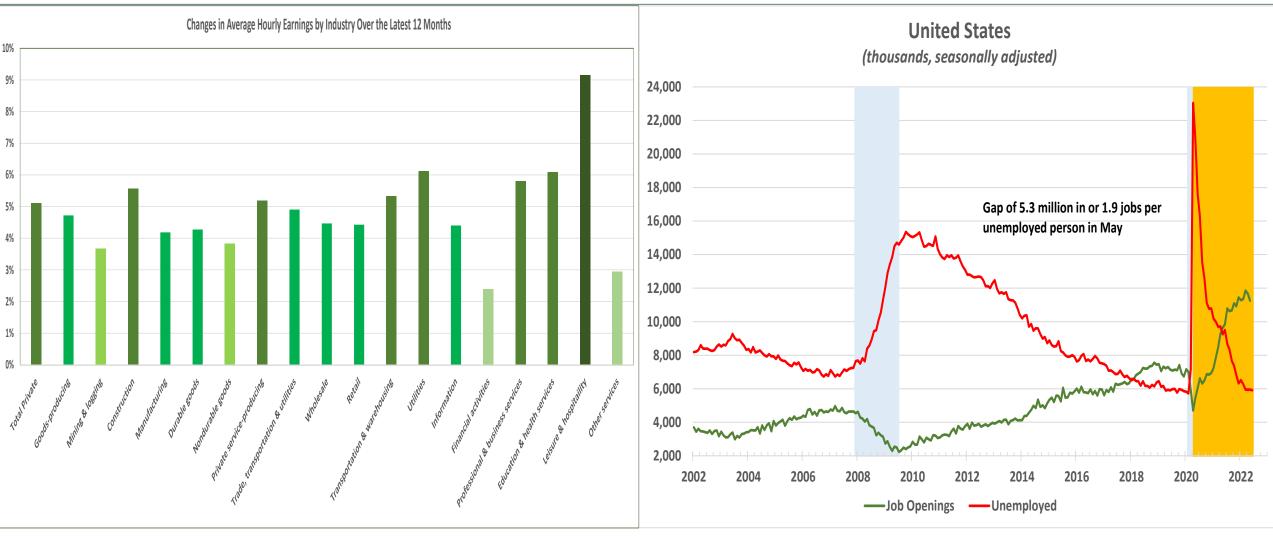


Extended Unemployment Rate Now at Record Low



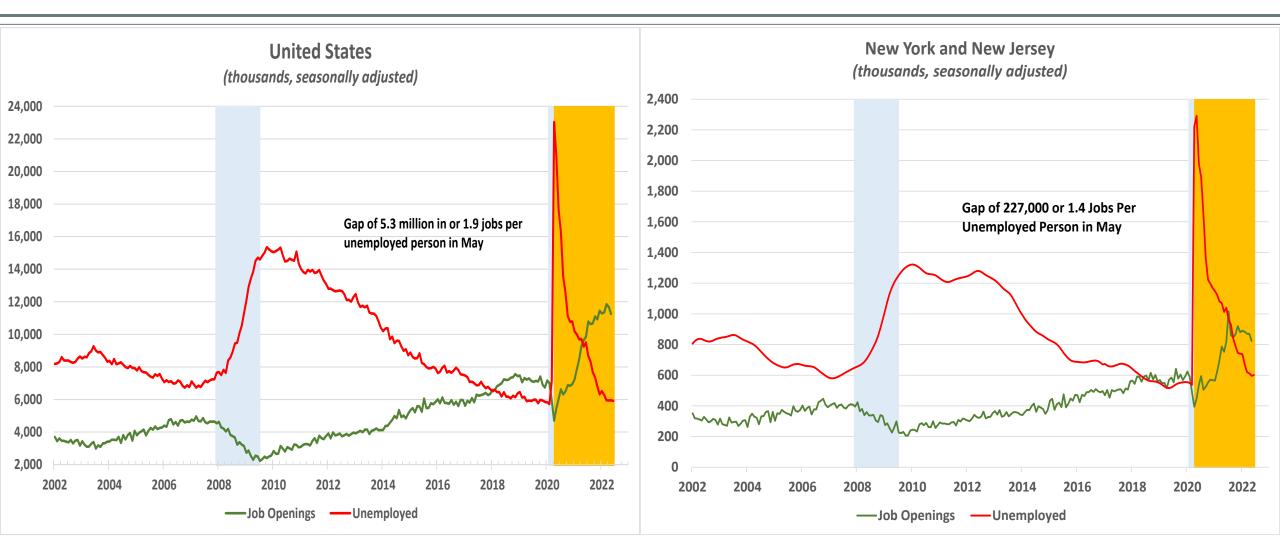


Wage Gains Have Been Solid Across Industries; Demand for Workers Outstripping Supply



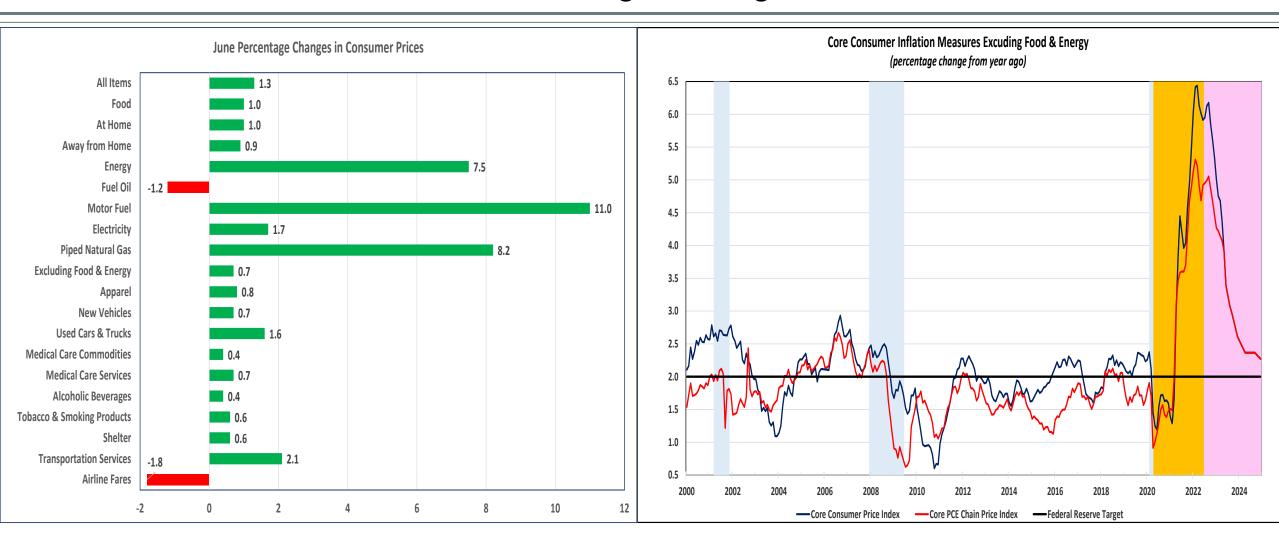
Notes: Blue shaded areas denote recessions. Orange shaded area highlights current economic expansion. Sources: Bureau of Labor Statistics, National Bureau of Economic Research and FHLBNY estimates

Labor Demand Outstripping Supply Nationally and Within the FHLBNY District





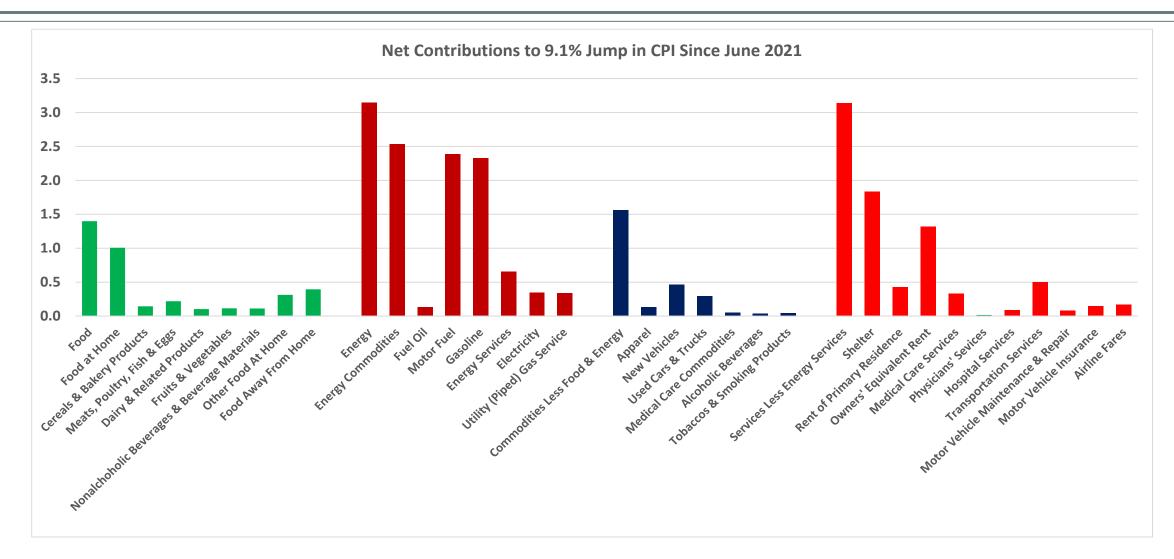
Consumer Price Increases Were Widespread in June; Core Inflation Gauges to Remain Above Fed Target Through 2024



Notes: Blue shaded areas denote recessions. Orange shaded area highlights current economic expansion. Pink shaded area represents projections.

Sources: Bureau of Labor Statistics, Bureau of Economic Analysis, Federal Reserve Board, National Bureau of Economic Research and FHLBNY estimates

Acceleration in Consumer Price Inflation Has Been Broadly Based

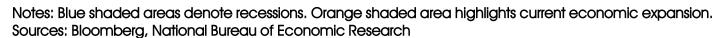




Sources: Bureau of Labor Statistics and FHLBNY estimates

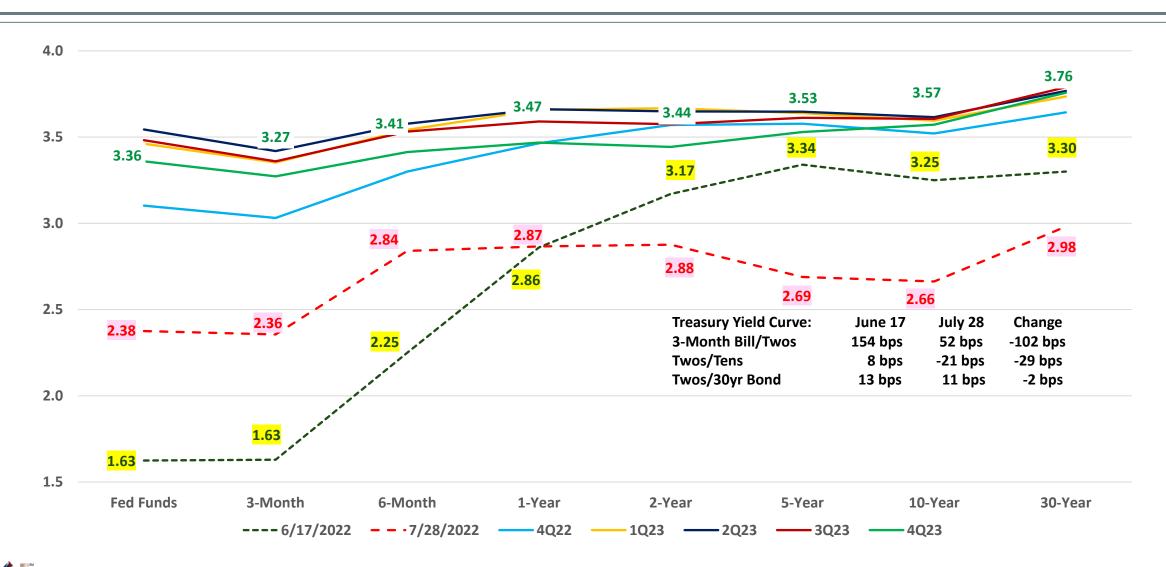
Financial Conditions Have Eased Since Mid-June, But Remain in Restrictive Territory

	24-Mar-20	17-Jun-22	28-Jul-22	Change	Bloomberg U.S. Financial Conditions Index					
US Financial Conditions	-6.34	-1.13	-0.64	0.49	Std Dev					
					2					
Money Market Spreads:					MMMMMMMM MM MMM MMMMMMMMMMMMMMMMMMMMMM					
TED Spread	127.05	53.13	42.95	-10.18						
Libor/OIS Spread	112.05	7.39	20.74	13.35						
Com Paper/T-Bill Spread	205.64	53.84	41.12	-12.72	-2					
Bond Market Spreads:										
Baa/10-Yr Treasury Spread	456.37	190.44	217.11	26.67	-4					
High-Yield/10-Yr Treas Spread	11.00	5.02	4.91	-0.11						
Muni/10-Yr Spread	235.89	-18.44	-10.07	8.37	-6					
Swaption Volatility Index	118.27	128.30	114.60	-13.70						
					-8					
Equity Market:										
S&P 500	2447.33	3674.84	4004.61	329.77	-10					
VIX S&P Volatility Index	61.67	31.13	23.33	-7.80	1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018 2020 2022					





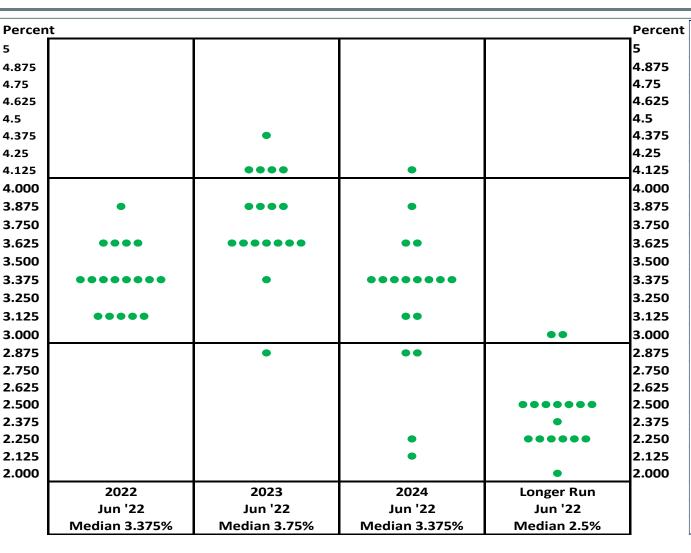
Treasury Yield Curve Has Flattened Dramatically in Response to Fed Tightening and Growing Recession Fears

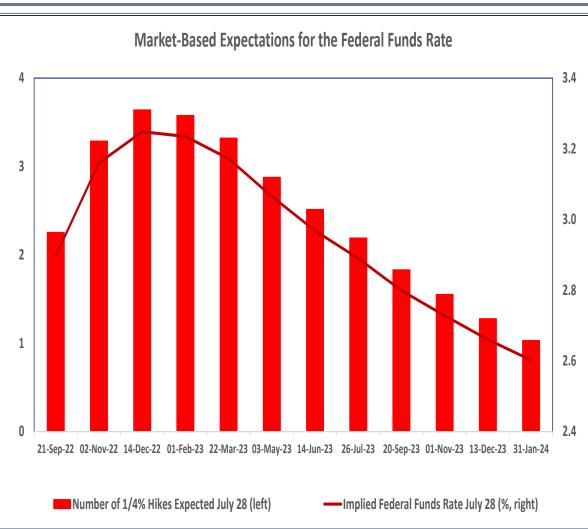




Sources: Bloomberg, Blue Chip Consensus

In Contrast to Fed Officials, Market Participants Expect the Federal Funds Rate to Peak in December

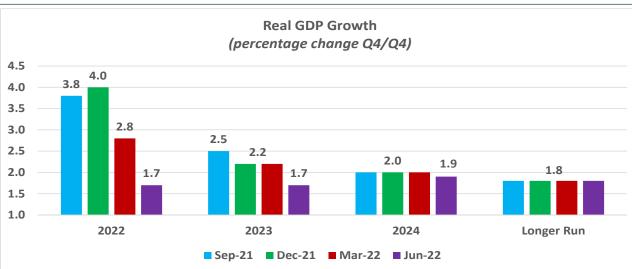


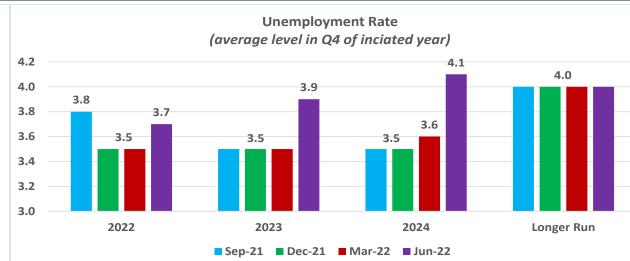


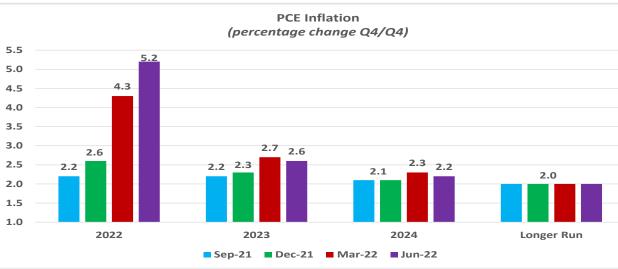


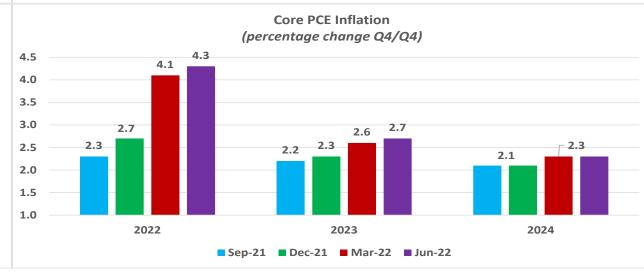


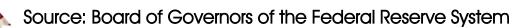
Federal Reserve Officials Pared Growth, Boosted Inflation Forecasts at the March FOMC Meeting







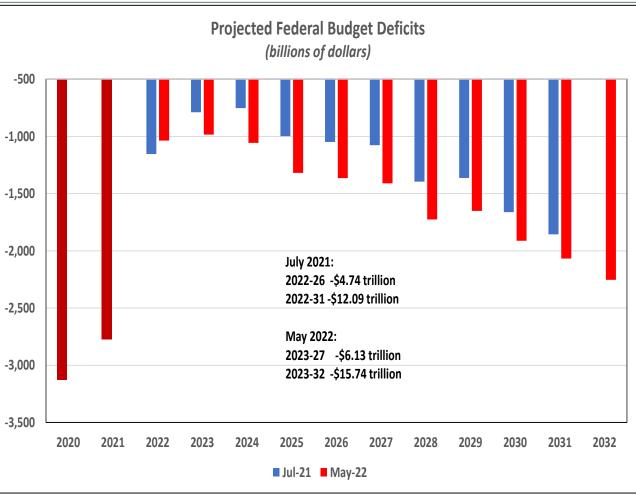


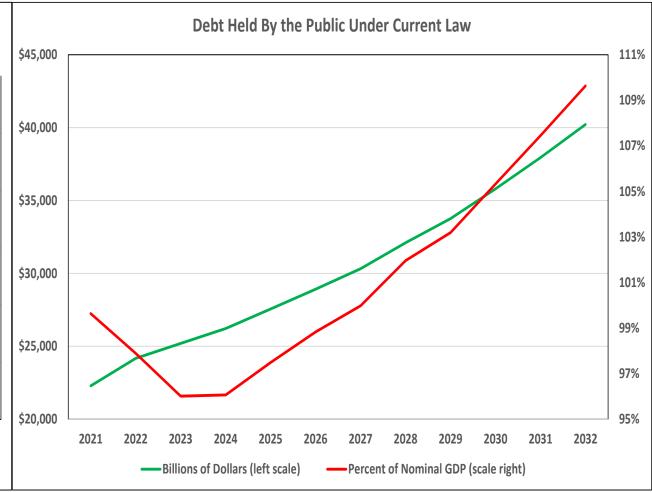


FHLBNY

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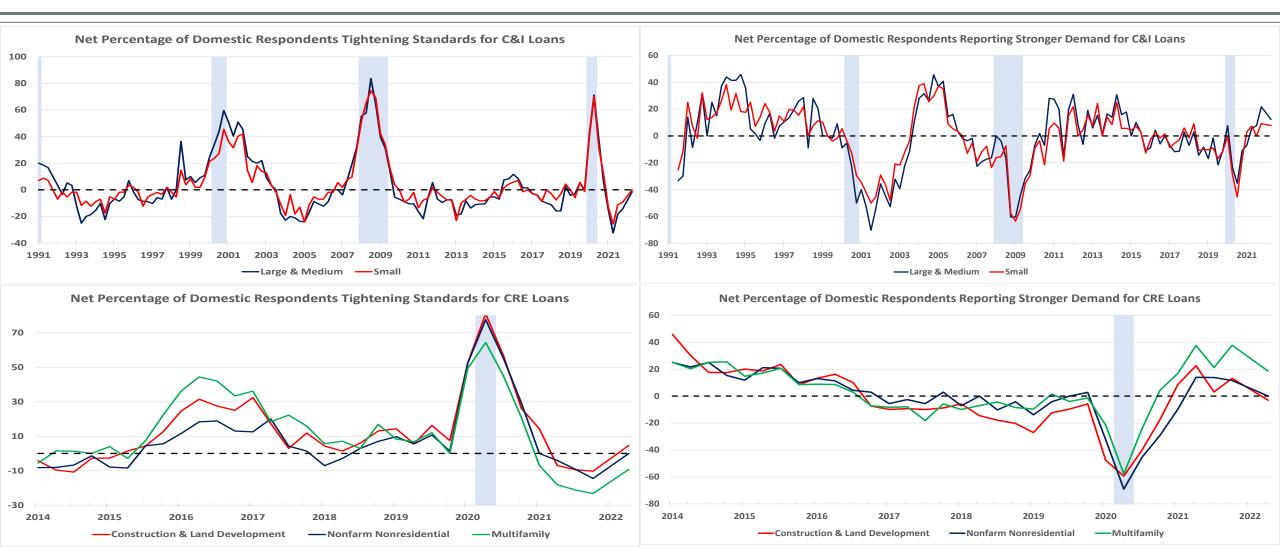
Massive Federal Deficits Will Require Sizable Increases in Treasury Debt Issuance







Bank Lending Standards for C&I and CRE Loans Little Changed Amid Generally Stronger Demand

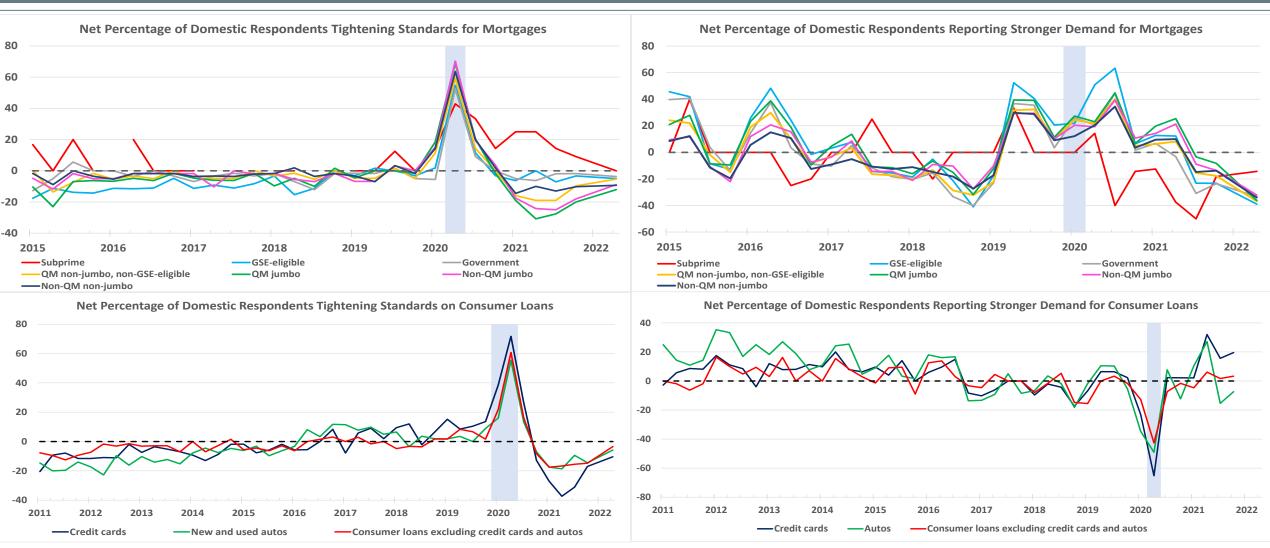


Note: Shaded areas denote recessions.

FHLBNY

Sources: Federal Reserve Board and National Bureau of Economic Research

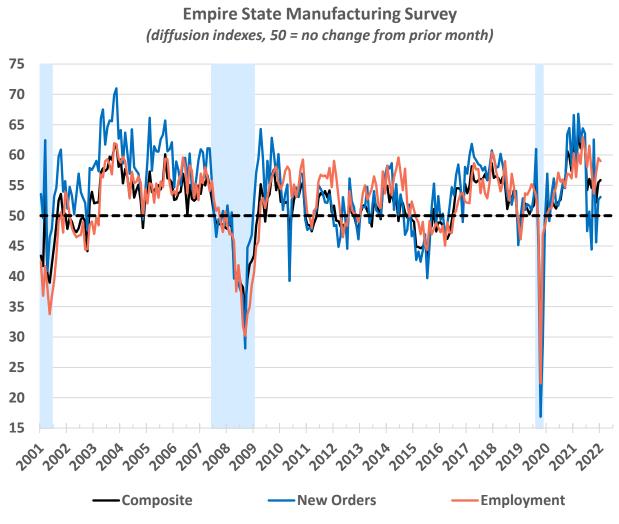
Banks Easing Lending Standards for Mortgage & Consumer Loans Amid Mixed Demand

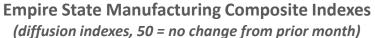


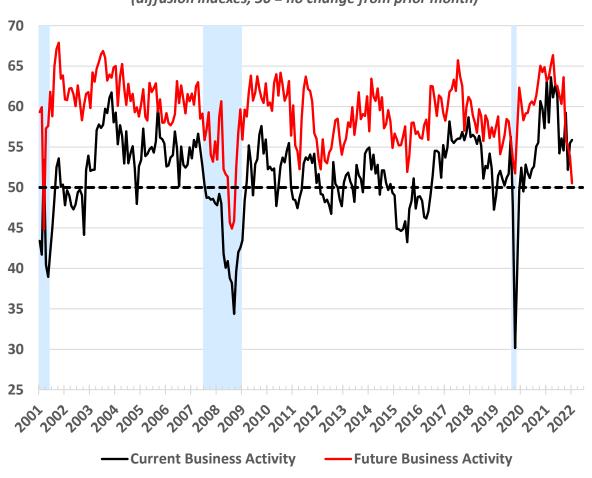
Note: Shaded areas denote recession.

Source: Federal Reserve Board and National Bureau of Economic Research

N.Y. State Factory Activity Improved in July, But Firms Are Less Optimistic About the Future





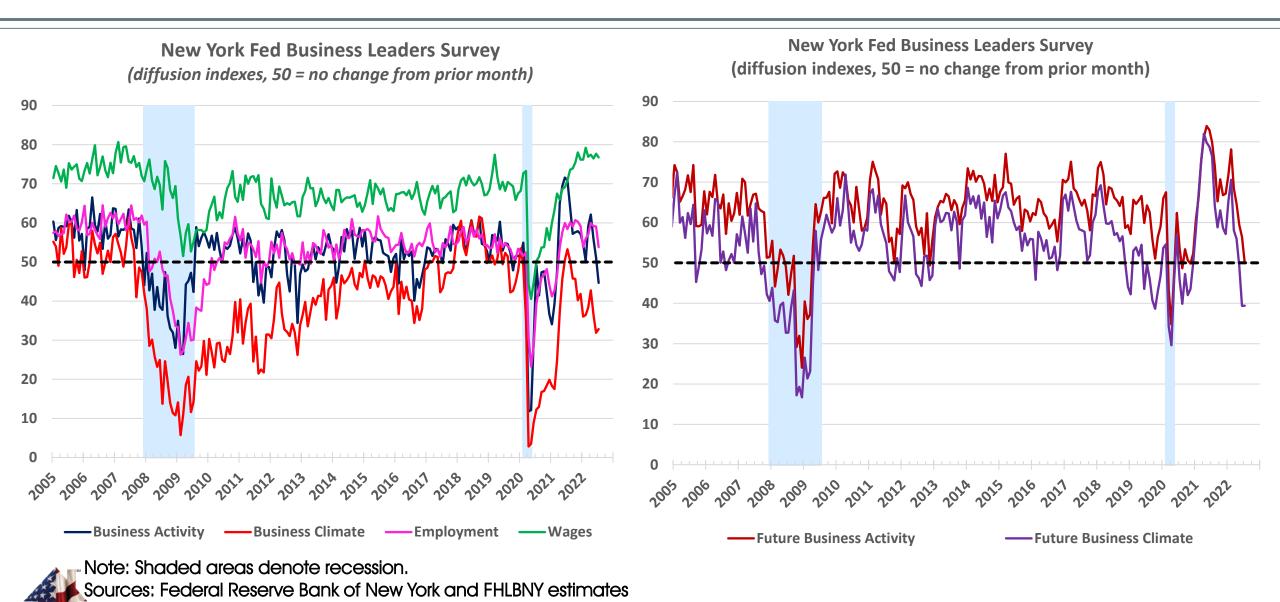


Note: Shaded areas denote recessions.

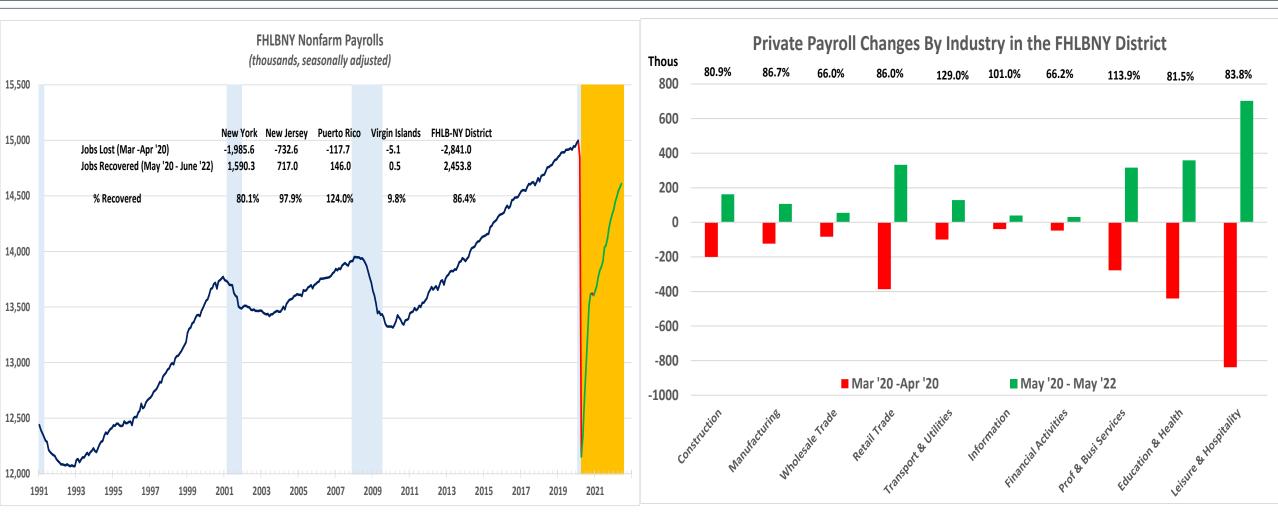
Sources: Federal Reserve Bank of New York and FHLBNY estimates



Local Service-Producing Activity Contracted in Early July, Firms Less Optimistic About the Future



FHLBNY District Has Added Jobs Since April 2020, But Payrolls Remain Well Below Pre-Pandemic Levels



Notes: Blue shaded areas denote recessions. Orange area highlights current economic expansion. Sources: Bureau of Labor Statistics and National Bureau of Economic Research

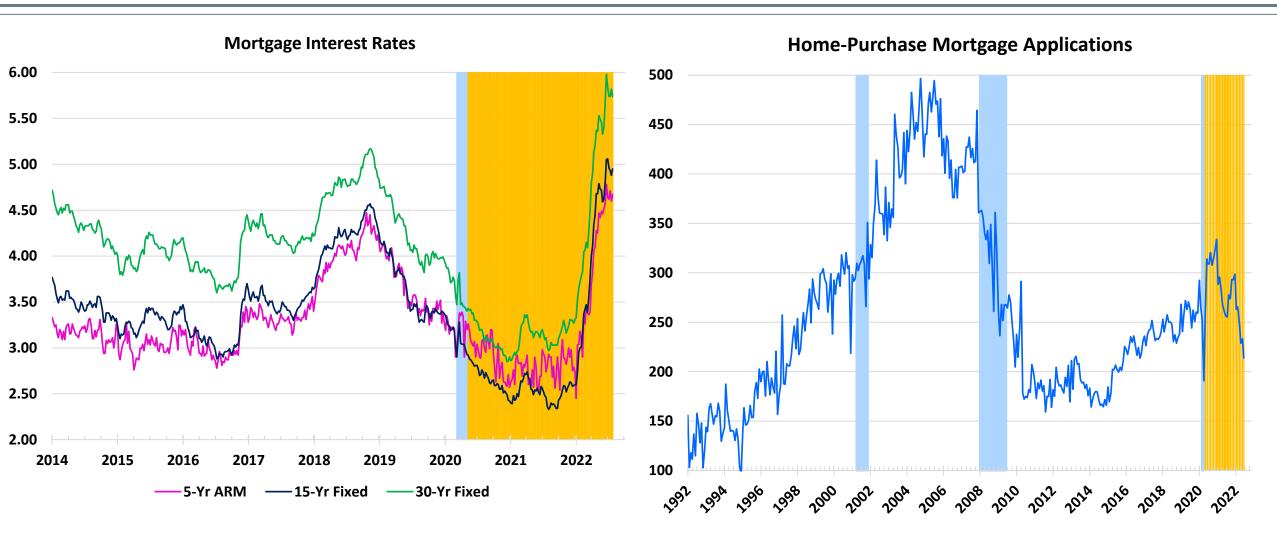
Jobs Recoveries Have Varied Widely Across the FHLBNY District

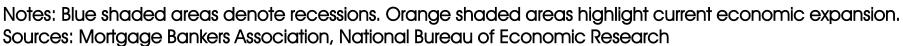
	Jobs Lost (thous)	Jobs Recovered (thous)	Percent			Jobs Lost (thous)	Jobs Recovered (thous)	Percent
United States	-21,991	21,467		97.6%	New Jersey	-732.6	717.0	97.9%
FHLBNY District	-2,841	. 2,454		86.4%	Atlantic City-Hammonton, NJ	-44.9	46.6	103.8%
					Camden, NJ Metropolitan Division	-86.1	102.6	119.2%
	Jobs Lost (thous)	Jobs Recovered (thous)	Percent		Newark, NJ-PA Metropolitan Division	-206.7	191.5	92.6%
New York State	-1985.6	1590.3		80.1%	Ocean City, NJ	-10	10.3	103.0%
Albany-Schenectady-Troy, NY	-74.9	59.1		78.9%	Trenton, NJ	-32	25.3	79.1%
Binghamton, NY	-19.2	14.5		75.5%	Vineland-Bridgeton, NJ	-8	7.4	92.5%
Buffalo-Cheektowaga-Niagara Falls, NY	-124.0	96.0		77.4%	Bergen-Hudson-Passaic, NJ	-173.4	150.4	86.7%
Dutchess County-Putnam County, NY Metropolitan Division	-29.7	20.9		70.4%	Middlesex-Monmouth-Ocean, NJ	-169.1	167.7	99.2%
Elmira, NY	-6.8	4.0		58.8%				
Glens Falls, NY	-10.0	7.5		75.0%		Jobs Lost (thous)	Jobs Recovered (thous)	Percent
Ithaca, NY	-10.3	6.8		66.0%	Puerto Rico	-117.7	146.0	124.0%
Kingston, NY	-13.6	10.2		75.0%	Aguadilla-Isabela	-8.0	9.5	118.8%
Nassau County-Suffolk County, NY Metropolitan Division	-322.7	274.0		84.9%	Arecibo	-5.7	6.3	110.5%
New York-Jersey City-White Plains, NY-NJ Metropolitan Division	-1471.9	1200.3		81.5%	Guayama	-1.3	1.8	138.5%
New York-Newark-Jersey City, NY-NJ-PA	-2044.3	1689.5		82.6%	Mayaguez	-4.6	5.5	119.6%
Rochester, NY	-95.1	71.6		75.3%	Ponce	-9.7	13.7	141.2%
Syracuse, NY	-55.5	44.0		79.3%	San German	-2.5	3.8	152.0%
Utica-Rome, NY	-22.5	15.6		69.3%	San Juan-Carolina-Caguas	-84.4	101.5	120.3%
Watertown-Fort Drum, NY	-7.2	6.7		93.1%				
New York City, NY	-971.8	766.0		78.8%	Virgin Islands	-5.1	0.5	9.8%
Orange-Rockland-Westchester, NY	-165.3	124.2		75.1%				l



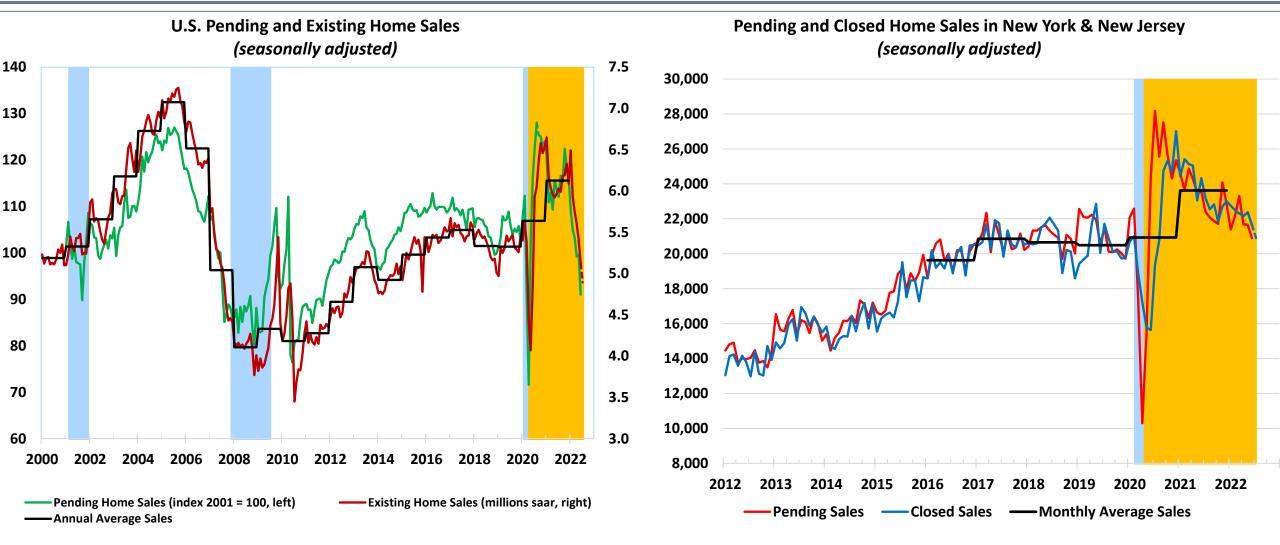
Source: Bureau of Labor Statistics

Dramatic Increases in Mortgage Interest Rates, Limited Inventory Weighing on Home-Purchase Applications





Falloffs in Home-Contract Signings Point to Fewer Closings Both Nationally and in the FHLBNY District

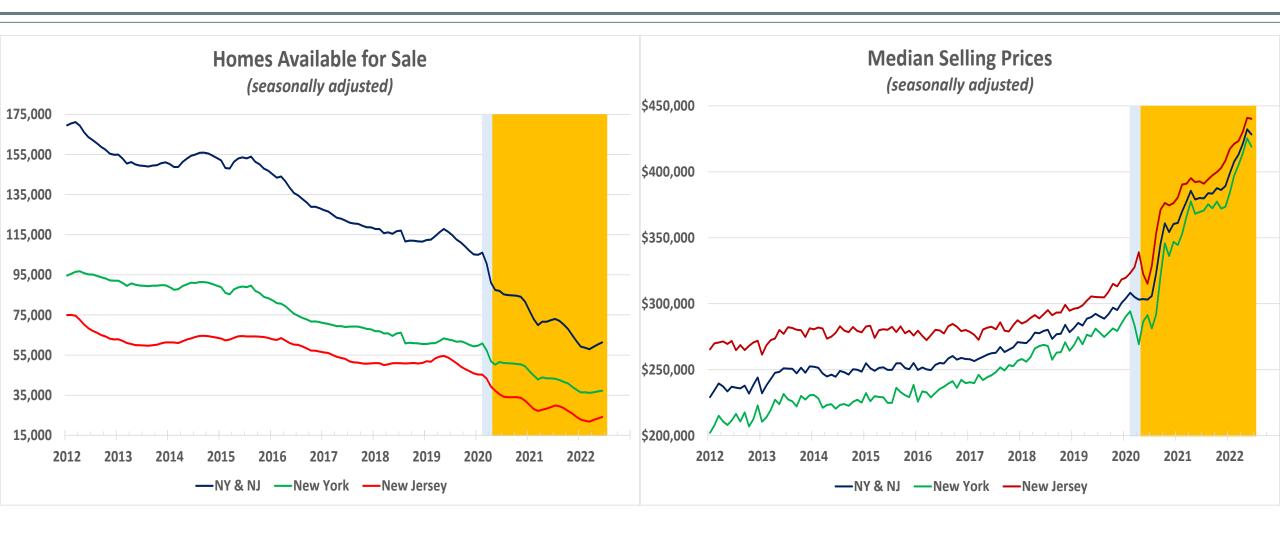




Notes: Blue shaded areas denote recessions. Orange shaded areas highlight current economic expansion.

Sources: National Association of Realtors, National Bureau of Economic Research, NYSAR, NJ Realtors, and FHLBNY estimates

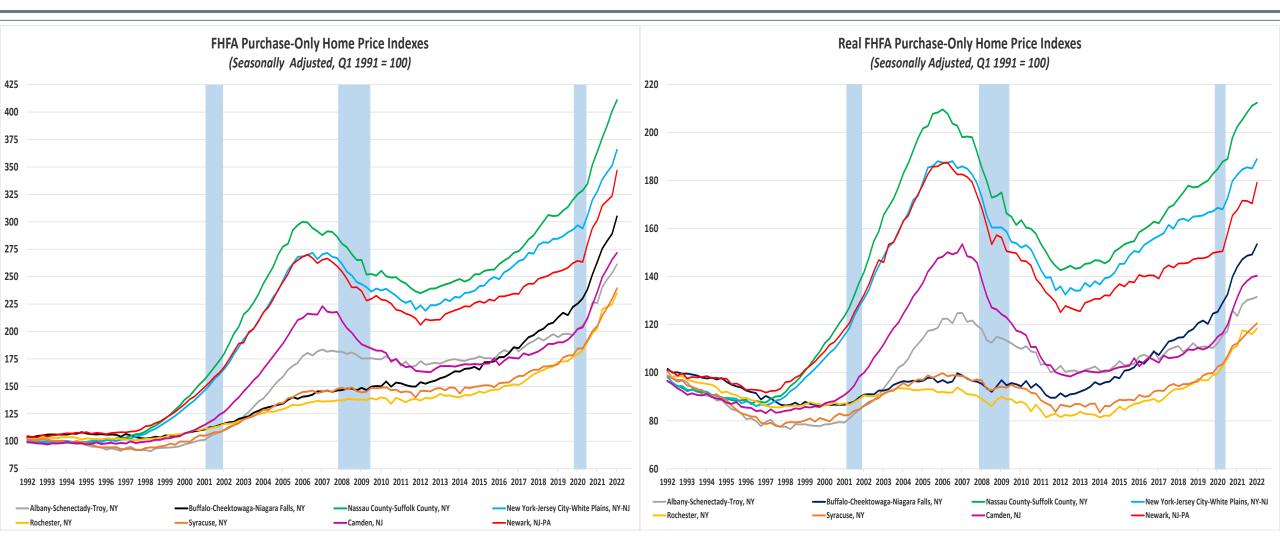
Near-Record Low Dwellings on the Market Will Support Local Home Prices Until Supply Comes on Stream



Notes: Blue shaded areas denote recession. Orange shaded area denotes current economic expansion.

Sources: NYSAR, NJ Realtors and FHLBNY estimates

Home-Price Performance Has Varied Widely Across the FHLBNY District



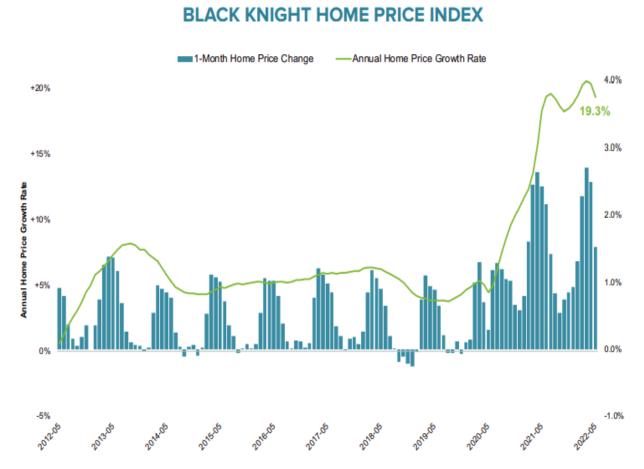
Notes: Blue shaded areas denote recessions.

Sources: Burgan of Labor Statistics, Fodoral Housing Finance Agency, National Burgan of Foonemic Possagrab

FHLBNY

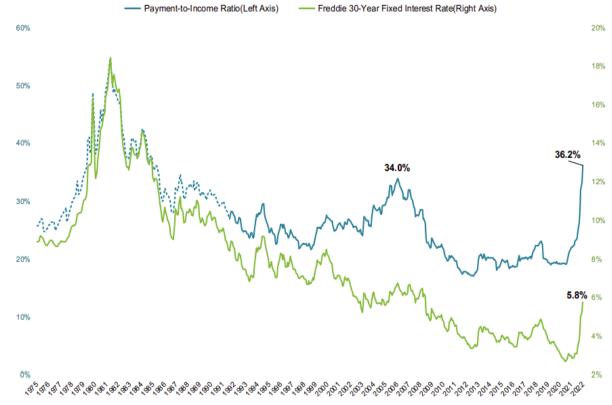
Sources: Bureau of Labor Statistics, Federal Housing Finance Agency, National Bureau of Economic Research, and FHLBNY estimates

Higher Home Prices and Mortgage Interest Rates Have Made Housing Less Affordable





NATIONAL PAYMENT-TO-INCOME RATIO*

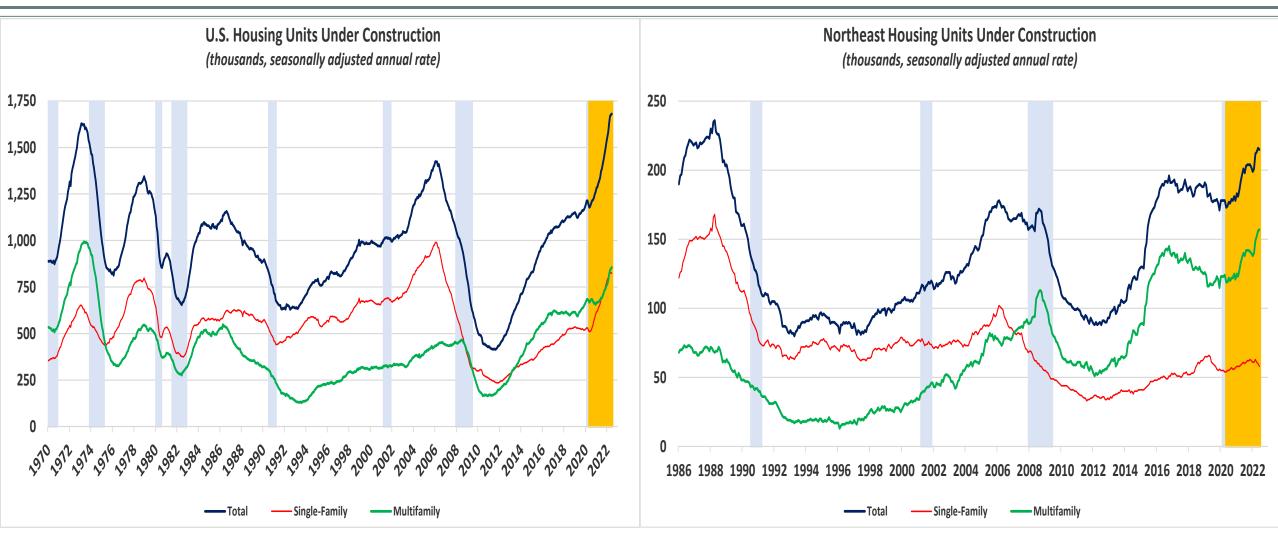


Source: Black Knight HPI, Census Bureau, FHLMC PMMS, Moody's

*The National Payment to Income Ratio is the share of median income needed to make the monthly principal and interest payment on the purchase of the average-priced home using a 20% down 30-year fixed rate mortgage at the prevailing interest rate 2022: Data as of June 16th, 2022

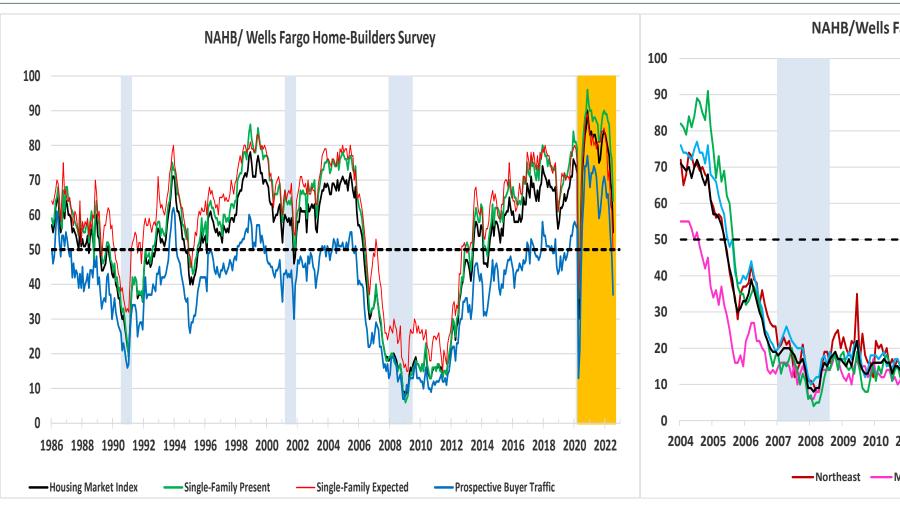


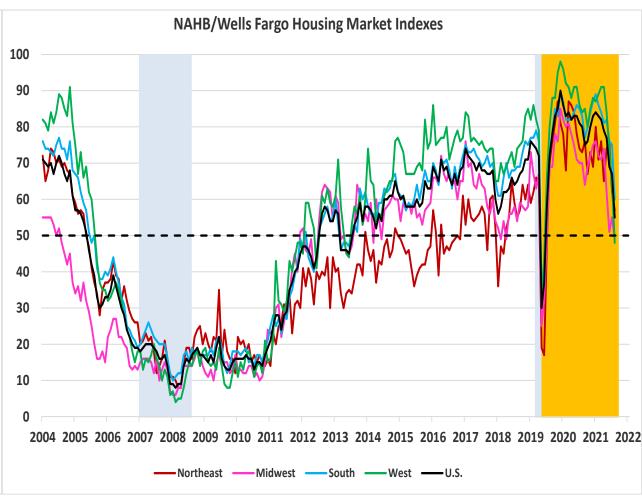
Builders Have Responded to Housing Shortage, But Completion Times Have Lengthened



Notes: Blue shaded areas denote recession. Orange shaded areas highlight current economic expansion. Sources: Census Bureau and National Bureau of Economic Research

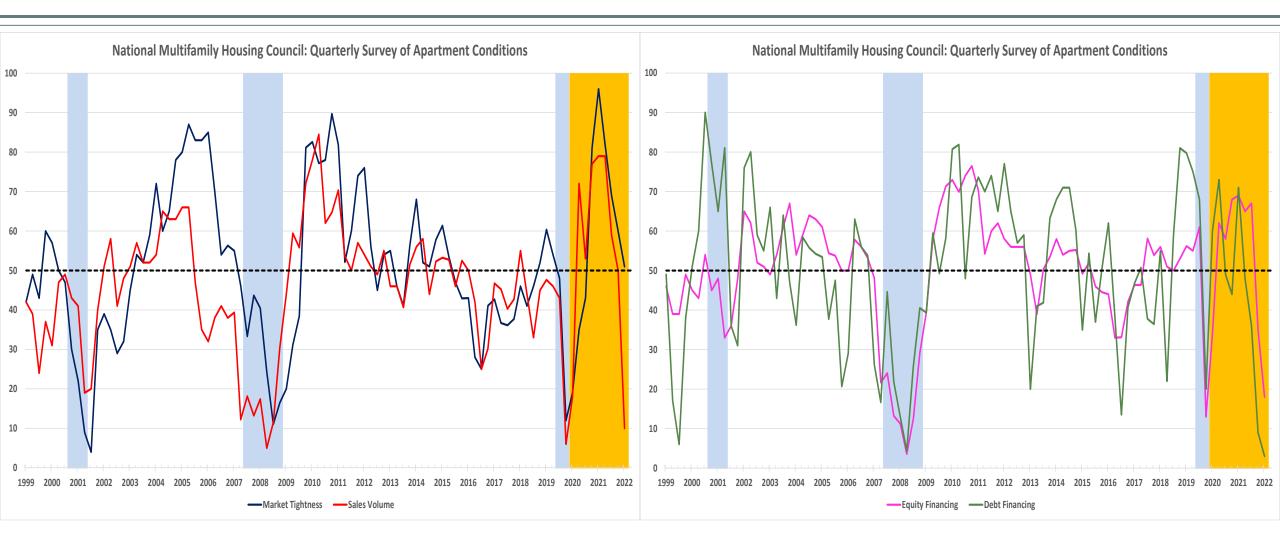
Higher Materials Costs and Interest Rates Are Weighing on Home-Builder Sentiment







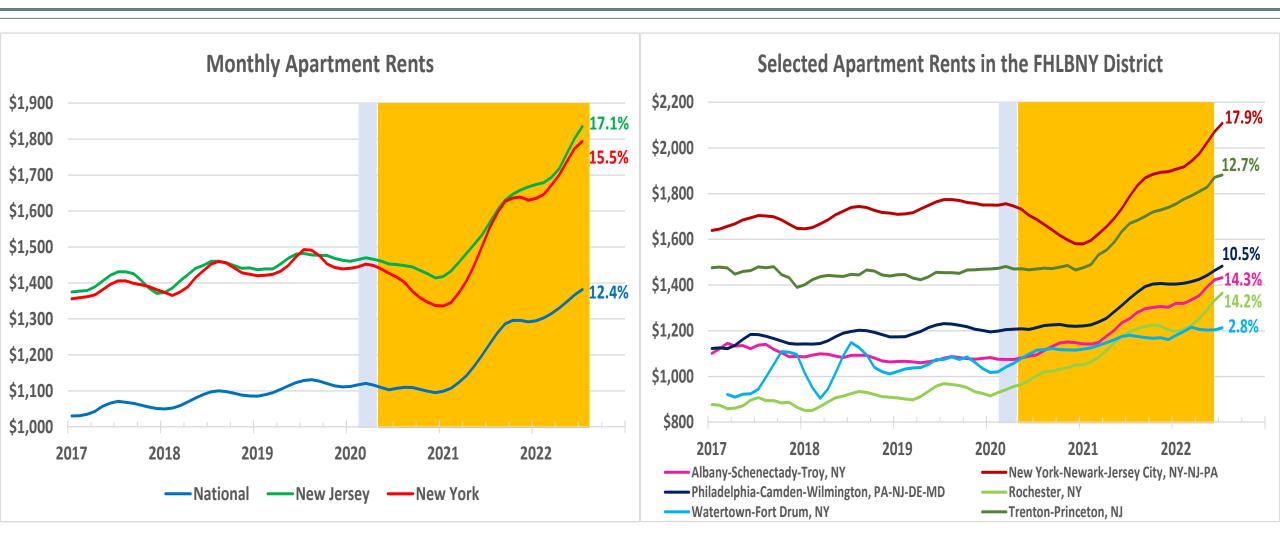
Apartment Market Conditions Remained Tight, But Sales Volumes Fell Amid a Deteriorating Financing Environment



Notes: The diffusion indexes above are calculated by taking one-half the difference between positive and negative responses and adding 50. Blue shaded areas denote recessions. Orange shaded areas highlight current expansion.

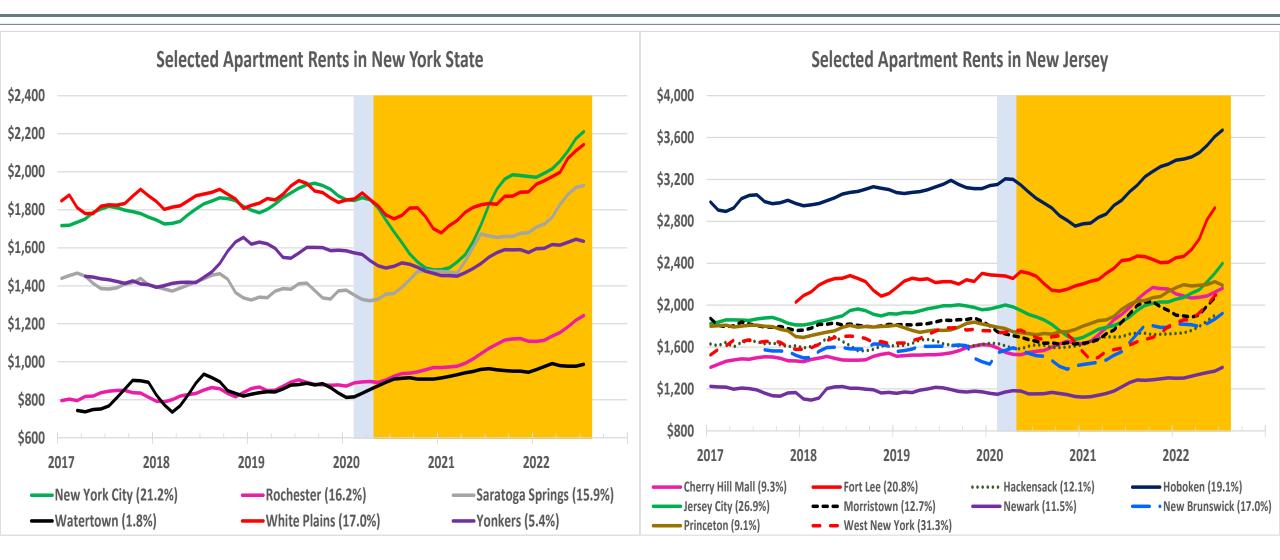
Sources: National Multifamily Housing Council, National Bureau of Economic Research

Apartment Rents Are Rising at Double-Digit Rates Across the Country and FHLBNY Coverage Area



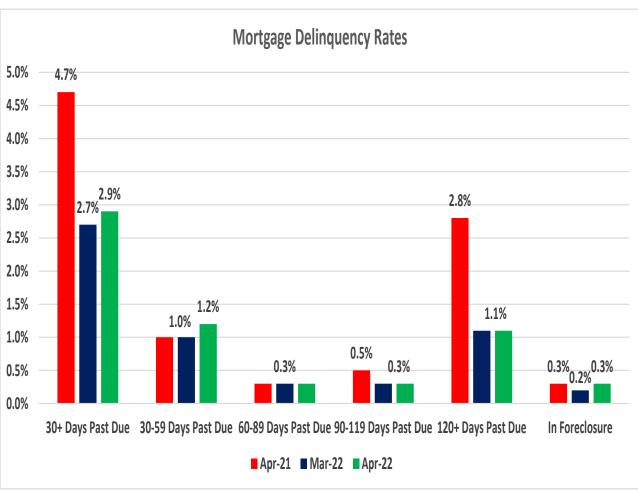
Notes: Blue shaded areas denote recession. Orange shaded areas highlight the current economic expansion. Percentage changes are from May 2021. Sources: Apartment List, National Bureau of Economic Research

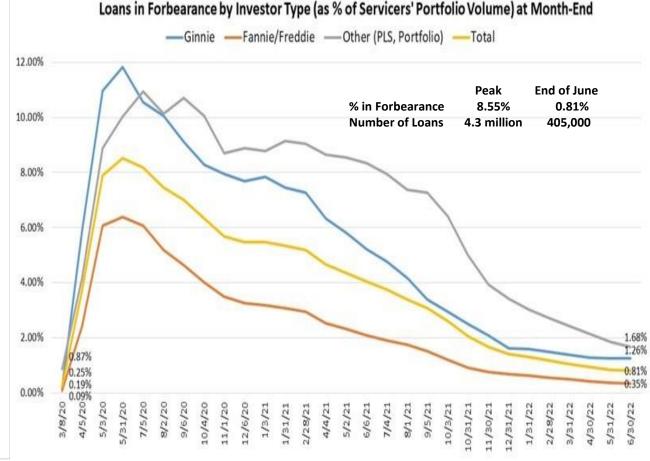
Residential Rents Rising at Double-Digit Rates Across Most of the Empire and Garden States



Notes: Blue shaded areas denote recession. Orange shaded areas highlight the current economic expansion. Percentages changes from June 2021 in parenthesis.
 Sources: Apartment List, National Bureau of Economic Research

Mortgage Performance Improving; Forbearances Remain on a Downtrend





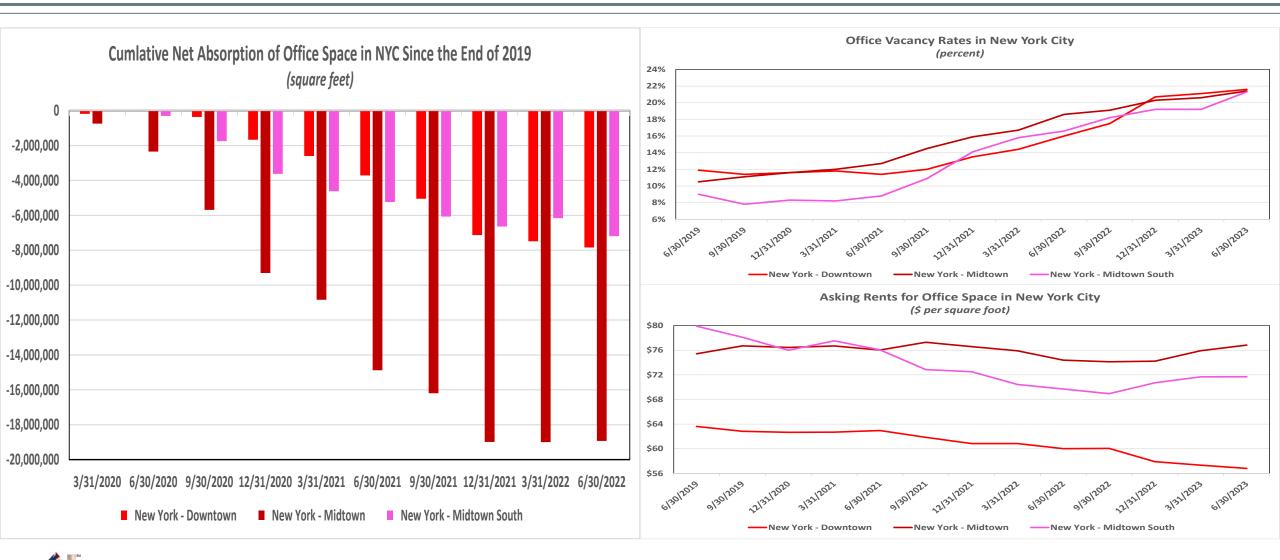
Sources: CoreLogic and Mortgage Bankers Association

FHLBNY District Commercial Real Estate Markets Have Been Mixed Since the Pandemic Struck (changes in key metrics from 4Q 2019 to 2Q 2022)

Office Markets:	Net Absorption (sq. ft.)	Vacancy Rate	Asking Rents	Industrial Markets:	Net Absorption (sq. ft.)	Vacancy Rate	Asking Rents
Binghamton, NY	-17,657	1.1%	4.0%	Binghamton, NY	604,955	-7.5%	-0.6%
Buffalo, NY	31,311	1.9%	0.0%	Buffalo, NY	2,420,841	-5.2%	56.8%
Long Island, NY	-867,758	2.5%	2.8%	Long Island, NY	2,761,094	-1.9%	51.0%
New Jersey - Central	-2,902,795	3.4%	3.9%	New Jersey - Central	16,713,900	-0.1%	80.4%
New Jersey - Northern	-2,942,177	3.6%	1.2%	New Jersey - Northern	8,315,096	-1.4%	47.3%
New York - Brooklyn	374,927	2.8%	6.5%	New York - Outer Boroughs	2,893,305	-1.2%	25.4%
New York - Downtown	-7,837,962	10.0%	-9.4%	Rochester, NY	2,495,848	-2.7%	52.8%
New York - Midtown	-18,930,351	9.8%	0.5%	Syracuse, NY	1,346,035	-3.8%	19.8%
New York - Midtown South	-7,188,048	13.0%	-5.7%				
Rochester, NY	-795,093	3.6%	-11.1%	Shopping Centers:	Net Absorption (sq. ft.)	Vacancy Rate	Asking Rents
Syracuse, NY	-19,765	1.0%	1.1%	Albany	-222,546	0.8%	4.3%
Westchester County, NY	-957,846	3.9%	4.3%	Buffalo	-768,179	3.0%	6.5%
				New York City Metro	751,171	0.3%	-5.3%
				Rochester	-360,449	1.5%	4.9%
				Syracuse	20,159	-0.1%	7.1%

Source: Cushman & Wakefield

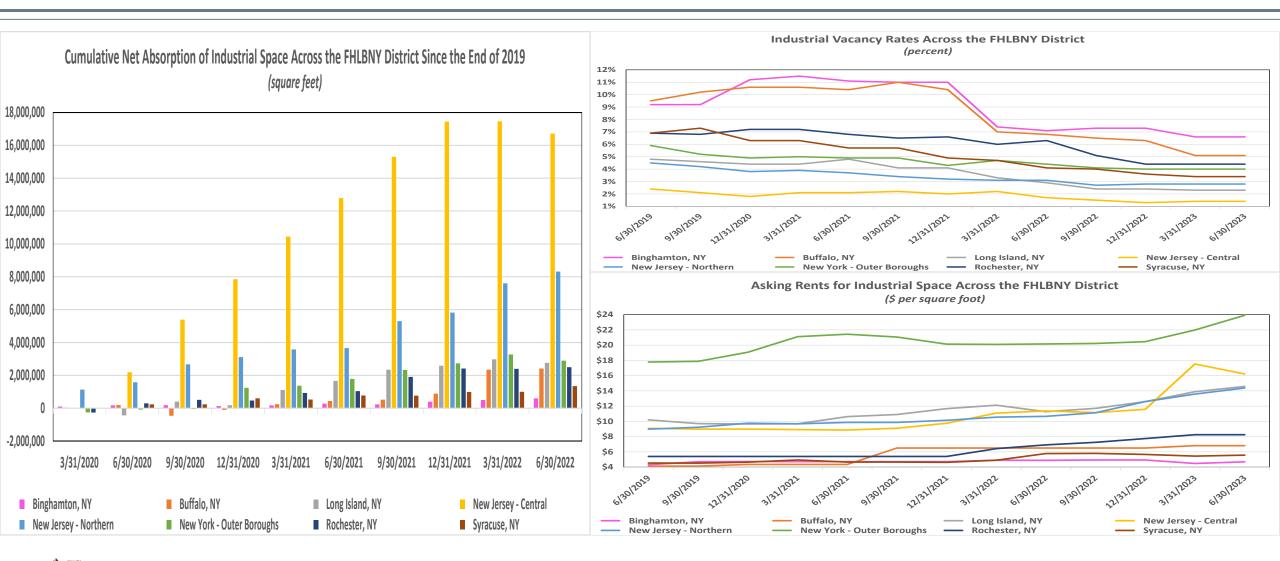
Demand for Office Space in NYC Remains Exceptionally Weak





Source: Cushman & Wakefield

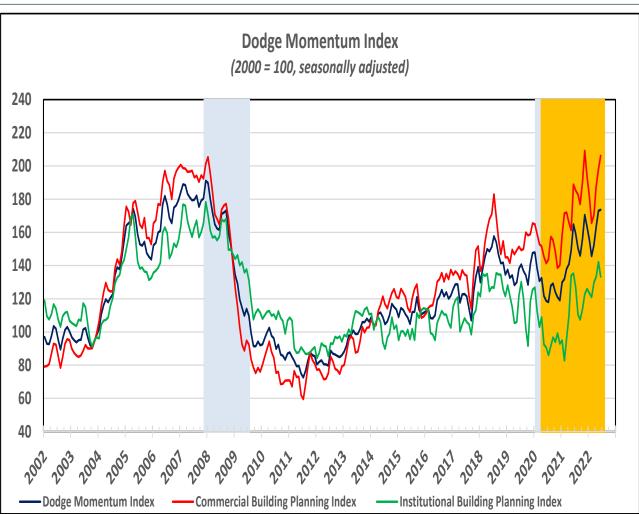
New Jersey Markets Have Accounted for Two Thirds of Industrial Space Absorbed Across FHLBNY District Since the End of 2019

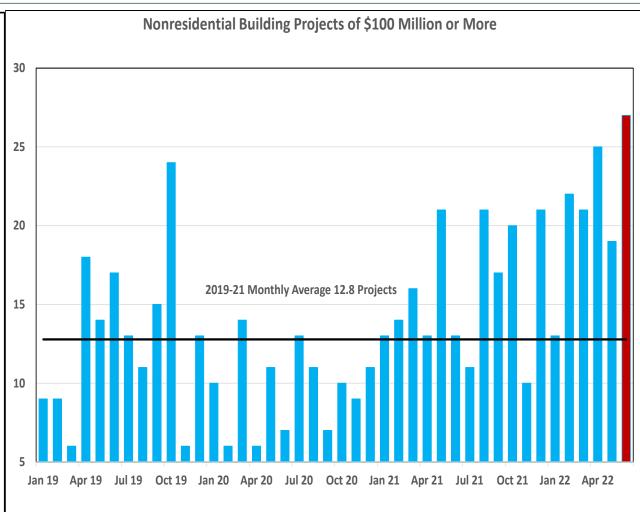




Source: Cushman & Wakefield

Nonresidential Building Projects in Planning Have Been Volatile, But Trending Higher





Notes: Blue shaded areas denote recession. Orange shaded area highlights the current economic expansion.

Sources: Dodge Data & Analytics, Federal Reserve Bank of St. Louis



Advancing Housing and Community Growth

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