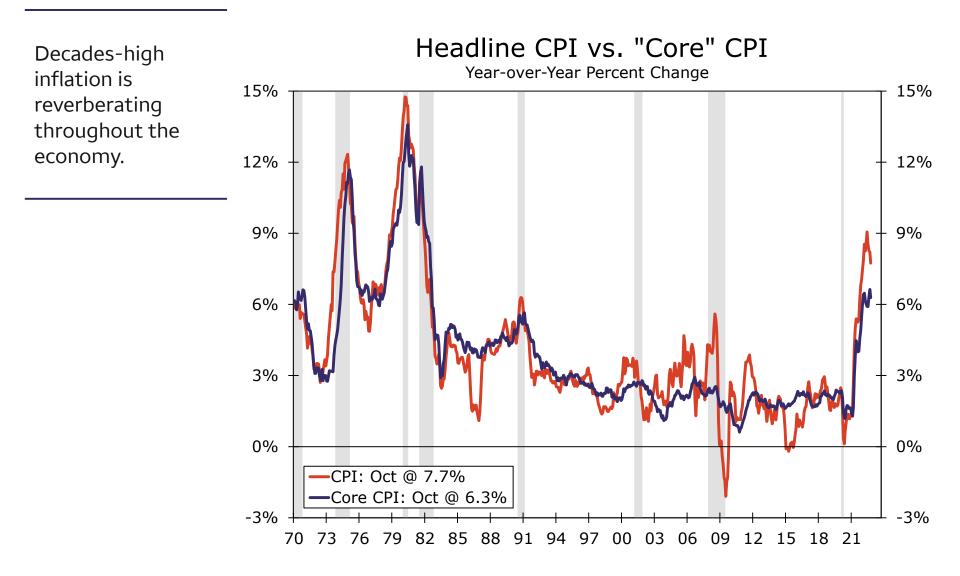
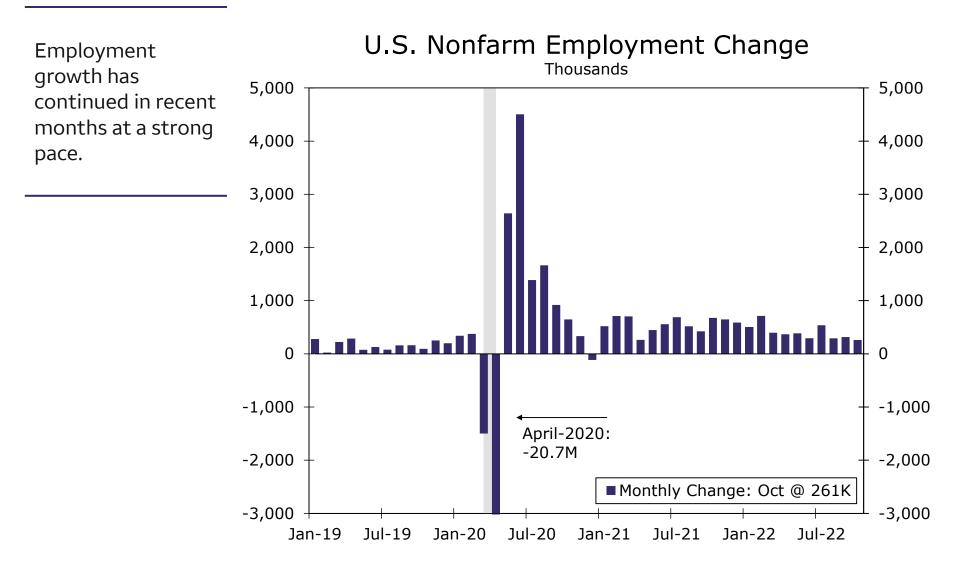


U.S. Economic Outlook

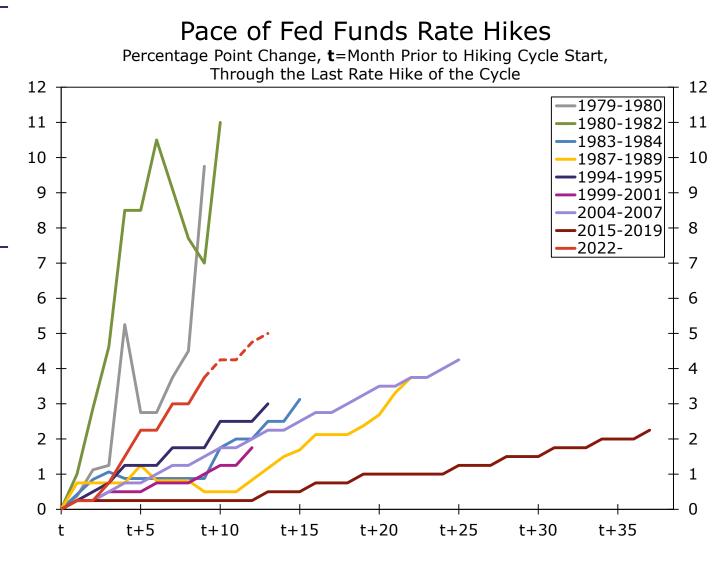
December 2022

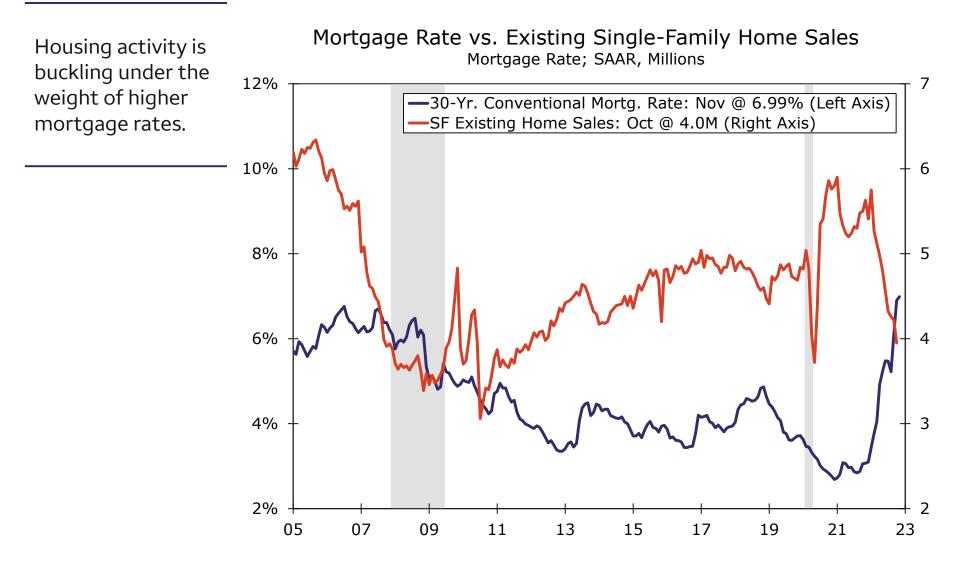
Shannon Seery Economist | Wells Fargo Corporate and Investment Banking <u>shannon.seery@wellsfargo.com</u> | 332-204-0693



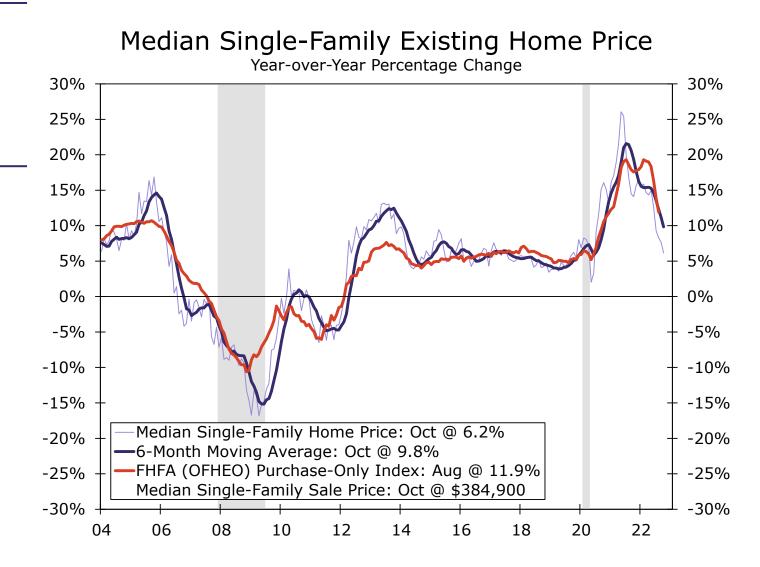


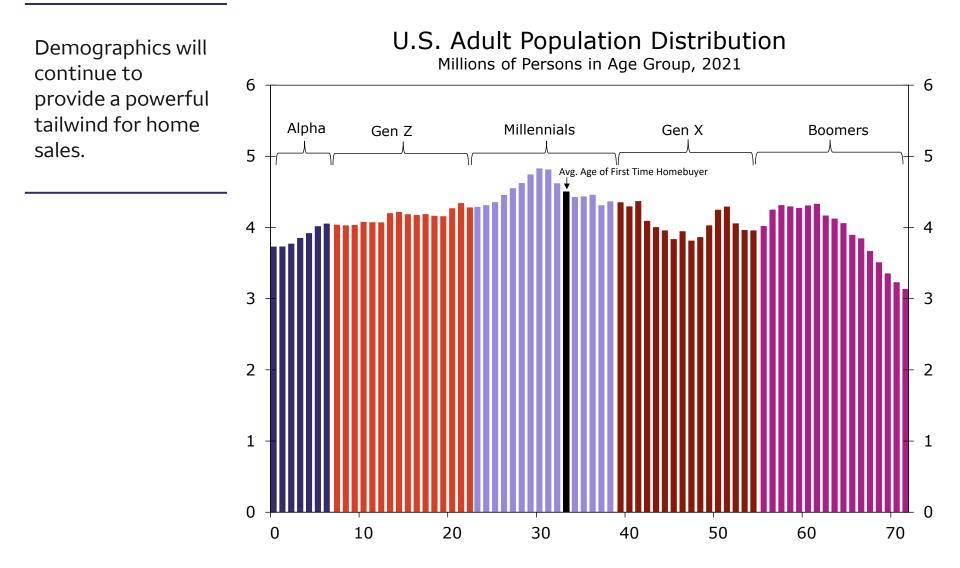
We expect the Fed to continue to tighten monetary policy at the fastest pace since the early 1980s into next year.



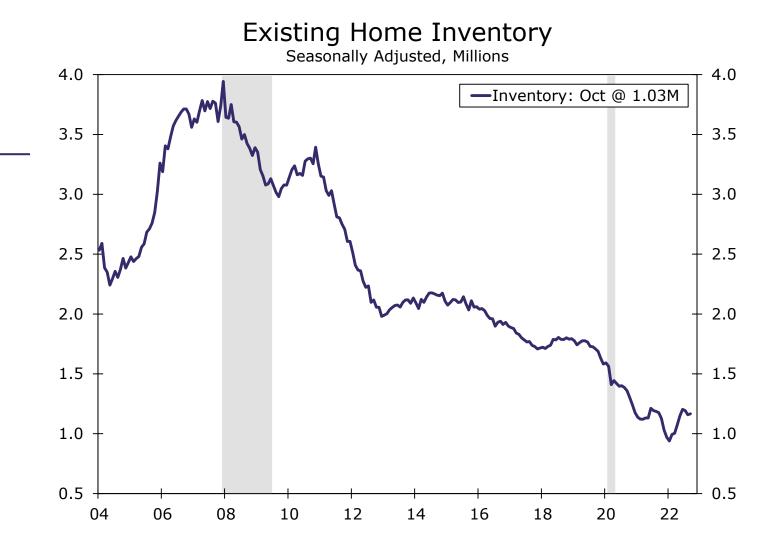


Home prices are moderating as buyers retreat to the sidelines.





The inventory of existing homes remains near an all-time low.



													Р	ressu	ire Ga	auge																	
Indicator	Feb-20	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb-21	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb-22	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Volume																																	
Unfilled Orders (a)	9.0%	6.2%	2.6%	0.6%	1.1%	4.6%	5.6%	7.4%	9.4%	10.7%	10.3%	11.2%	12.6%	15.3%	16.2%	15.6%	14.1%	12.4%	11.6%	9.1%	7.8%	6.0%	4.5%	4.4%	3.9%	4.3%	3.5%	2.2%	1.2%	1.5%	3.0%	3.3%	2.0%
Cass Freight Index (a)	-13.2%	14.0%	-33.5%	-44.1%	-36.3%	48.0%	88.4%	115.9%	80.5%	21.6%	-17.4%	-21.7%	-8.1%	29.1%	26.8%	59.0%	12.2%	-0.3%	-10.6%	-14.4%	4.1%	-8.8%	8.4%	-32.4%	-11.1%	-1.6%	39.7%	23.7%	0.0%	9.5%	14.7%	13.2%	8.6%
Taiwan Elect. Product Exports (a)	-38.1%	14.7%	56.6%	41.7%	14.7%	39.7%	120.9%	87.0%	96.2%	3.3%	-9.4%	10.2%	-47.1%	23.5%	6.6%	133.2%	35.7%	39.3%	73.1%	70.5%	-2.4%	20.0%	-7.5%	41.6%	-4.8%	58.0%	37.1%	27.1%	-19.5%	-5.8%	8.4%	-6.5%	-1.3%
Real Goods Consumption (b)	0.0%	-1.1%	-13.9%	-1.0%	5.1%	7.7%	6.9%	9.2%	8.9%	8.0%	7.2%	12.3%	9.9%	20.7%	18.9%	16.7%	16.8%	14.9%	14.8%	15.5%	16.8%	16.4%	14.0%	16.7%	15.3%	15.1%	15.3%	14.7%	14.9%	14.5%	14.5%	14.9%	
Time																																	
ISM Manuf. Supplier Deliveries	57.3	65.0	76.0	68.0	56.9	55.8	58.2	59.0	60.5	61.7	67.7	68.2	72.0	76.6	75.0	78.8	75.1	72.5	69.5	73.4	75.6	72.2	64.9	64.6	66.1	65.4	67.2	65.7	57.3	55.2	55.1	52.4	46.8
ISM Serv. Supplier Deliveries	52.4	62.1	78.3	67.0	57.5	55.2	60.5	54.9	56.2	57.0	62.8	57.8	60.8	61.0	66.1	70.4	68.5	72.0	69.6	68.8	75.7	75.7	63.9	65.7	66.2	63.4	65.1	61.3	61.9	57.8	54.5	53.9	56.2
Ships Awaiting Space LA & LB (c)	0.0	0.0	0.0	0.0	0.0	0.5	2.0	1.5	4.3	10.0	22.2	32.1	32.6	26.5	21.5	18.9	13.8	21.4	34.8	56.3	66.6	70.0	85.6	103.2	79.9	48.4	41.5	29.8	23.0	24.0	20.9	9.0	6.3
Price																																	
World Container Index (WCI)	\$1,633	\$1,520	\$1,500	\$1,549	\$1,788	\$2,009	\$2,144	\$2,541	\$2,592	\$2,806	\$3,955	\$5,263	\$5,227	\$4,991	\$4,919	\$5,898	\$7,052	\$8,879	\$9,556	\$10,237	\$9,891	\$9,180	\$9,227	\$9,518	\$9,398	\$8,783	\$7,907	\$7,667	\$7,412	\$6,908	\$6,317	\$4,894	\$3,425
PPI Transp. & Ware. of Goods (a)	0.3%	-1.9%	-7.6%	-12.2%	-8.8%	1.0%	9.0%	8.0%	6.5%	7.8%	10.2%	10.7%	13.0%	16.3%	16.5%	16.9%	14.4%	12.5%	9.6%	11.9%	16.4%	22.5%	19.6%	21.0%	19.5%	35.1%	34.3%	36.5%	15.9%	8.5%	-6.7%	-7.3%	-12.4%
Dry Van Rate Per Mile (a)	7.6%	-16.0%	-28.6%	-49.7%	-16.5%	52.6%	352.8%	315.4%	191.1%	112.6%	48.8%	12.2%	-25.4%	10.5%	12.6%	52.0%	-8.4%	-8.6%	-0.2%	41.8%	64.5%	57.1%	54.4%	91.6%	70.1%	-7.2%	-56.2%	-69.7%	-67.0%	-57.5%	-35.7%	-25.9%	-15.0%
Inventory																																	
Retail Inventory-to-Sales Ratio	1.42	1.53	1.69	1.35	1.23	1.22	1.23	1.23	1.25	1.27	1.27	1.22	1.24	1.10	1.09	1.09	1.09	1.12	1.11	1.10	1.09	1.10	1.17	1.15	1.15	1.18	1.18	1.20	1.21	1.23	1.24	1.25	
ISM Manuf. Cons. Inventories	41.8	43.4	48.8	46.2	44.6	41.6	38.1	37.9	36.7	36.3	37.9	33.1	32.5	29.9	28.4	28.0	30.8	25.0	30.2	31.7	31.7	25.1	31.7	33.0	31.8	34.1	37.1	32.7	35.2	39.5	38.9	41.6	41.6
Inventory Too Low (d)	-3.5%	-1.5%	-6.6%	-4.5%	1.2%	1.3%	2.7%	4.8%	4.4%	4.9%	6.5%	5.3%	4.5%	2.5%	7.0%	8.0%	11.0%	12.0%	11.0%	10.0%	9.0%	15.0%	9.0%	7.0%	7.0%	9.0%	6.0%	8.0%	5.0%	2.0%	3.0%	1.0%	0.0%
Labor																																	
Production & Manuf. Posts (b)	0.2%	1.3%	-30.0%	-31.6%	-23.7%	-13.8%	-6.1%	4.2%	12.9%	20.6%	27.4%	26.3%	38.2%	46.8%	63.5%	74.8%	76.7%	84.0%	78.0%	87.3%	92.4%	103.0%	115.3%	102.9%	108.9%	108.3%	96.3%	97.1%	92.9%	91.1%	89.3%	91.1%	87.1%
Loading & Stocking Posts (b)	1.4%	-0.4%	-32.5%	-32.7%	-17.6%	-0.8%	4.6%	12.3%	28.2%	38.8%	39.0%	26.3%	38.9%	46.4%	61.7%	72.7%	76.6%	90.2%	72.0%	82.4%	92.4%	106.5%	114.9%	92.9%	97.5%	93.9%	80.7%	84.9%	83.5%	89.3%	74.1%	79.3%	77.8%
Jobs Hard to Fill (d)	37.6%	35.2%	23.5%	23.2%	31.9%	30.2%	33.4%	36.4%	33.1%	33.5%	32.3%	32.7%	39.6%	42.2%	44.0%	48.0%	46.0%	49.0%	50.0%	51.0%	49.0%	48.0%	49.0%	47.0%	48.0%	47.0%	47.0%	51.0%	50.0%	49.0%	49.0%	46.0%	46.0%

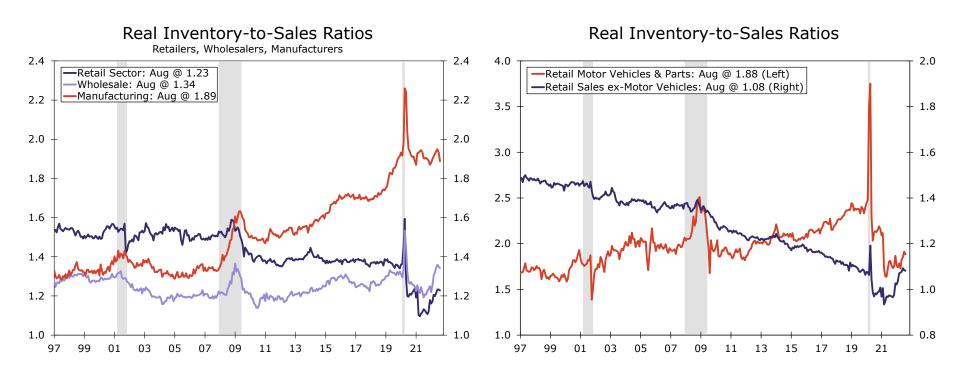
Droccuro Cougo

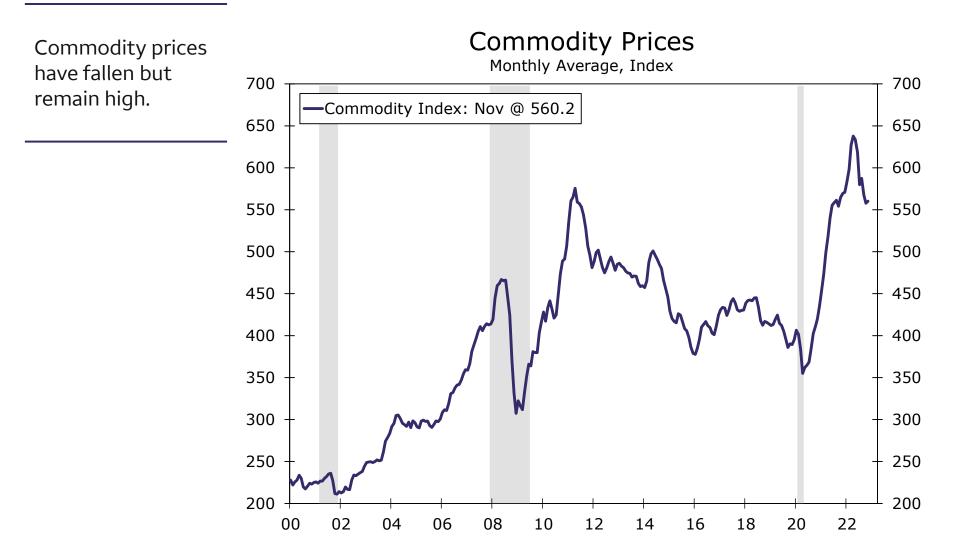
Notes: (a) 3-Month Annualized Rate, (b) versus February 2020, (c) Monthly Average, (d) Net % of Firms, Current Month Reflects Monthly Average of Available Data for All Series

Weekly updates available here.

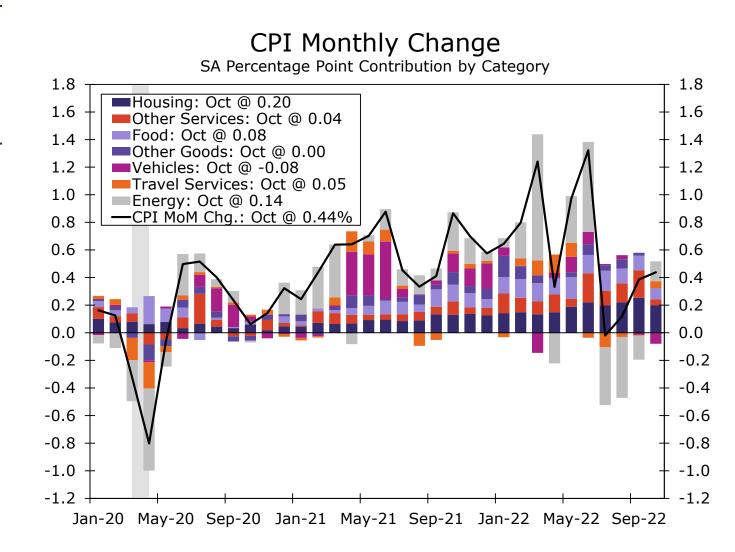
Source: U.S. Department of Commerce, Bloomberg Finance L.P., Taiwan Ministry of Finance, Institute for Supply Management (ISM), Drewry, U.S. Department of Labor, National Federation of Independent Business (NFIB), Indeed.com and Wells Fargo Economics

The easing of supply has allowed inventories to largely be replenished, notwithstanding the auto industry.

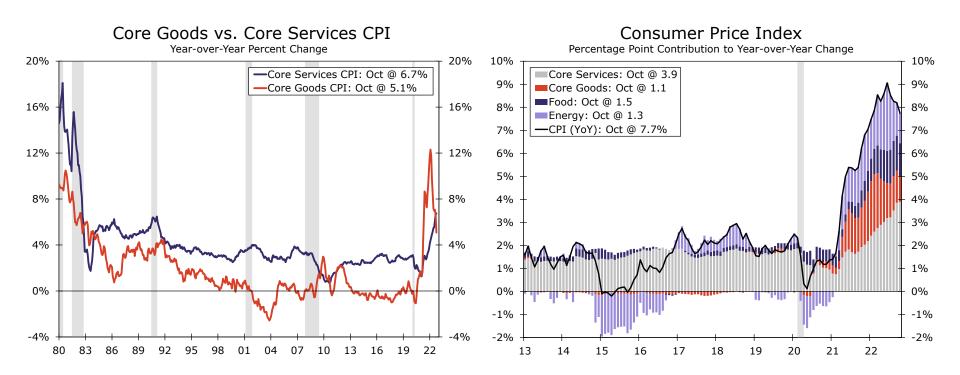


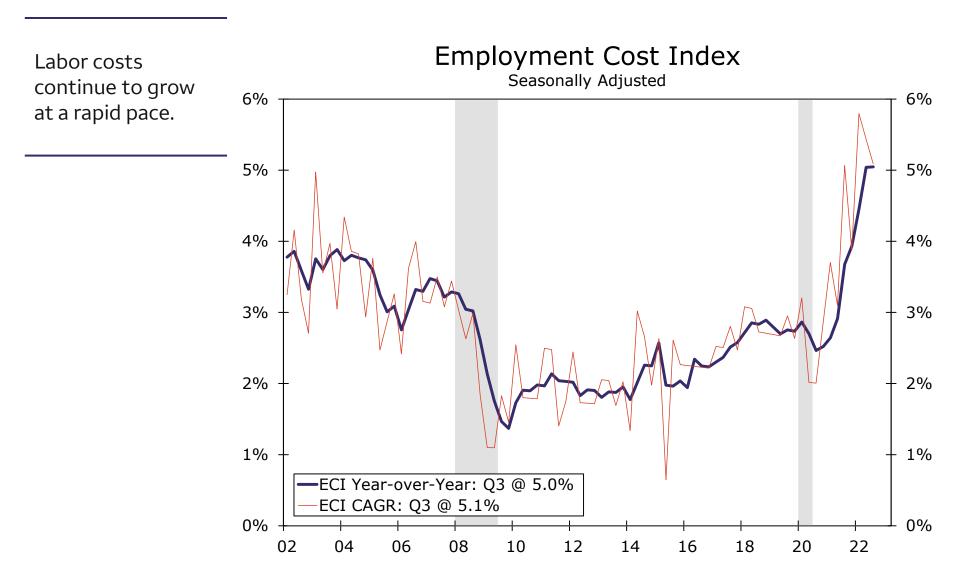


The climb in inflation remains broad-based.

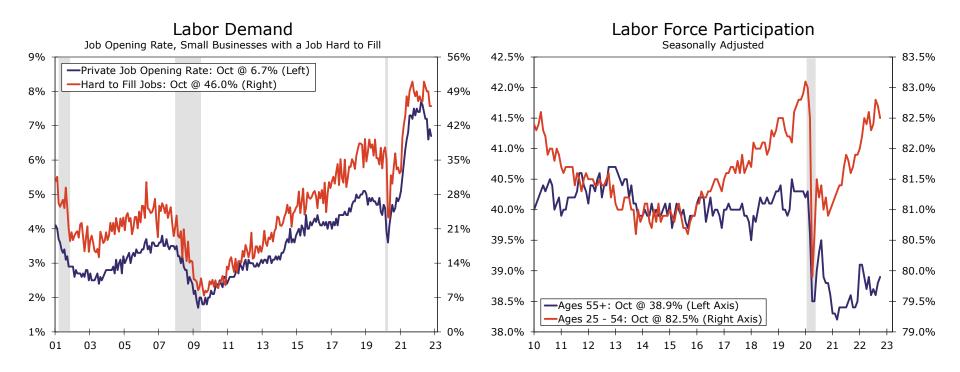


The burst of inflation was heavily concentrated in the goods sector, but it has broadened.

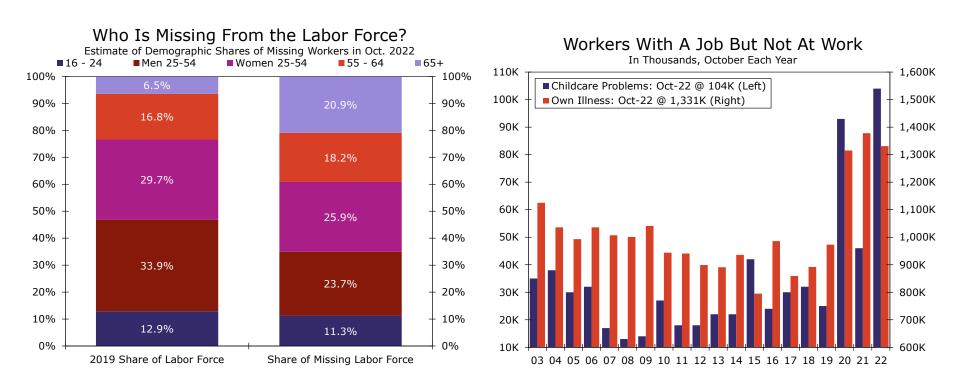


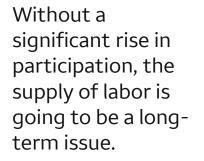


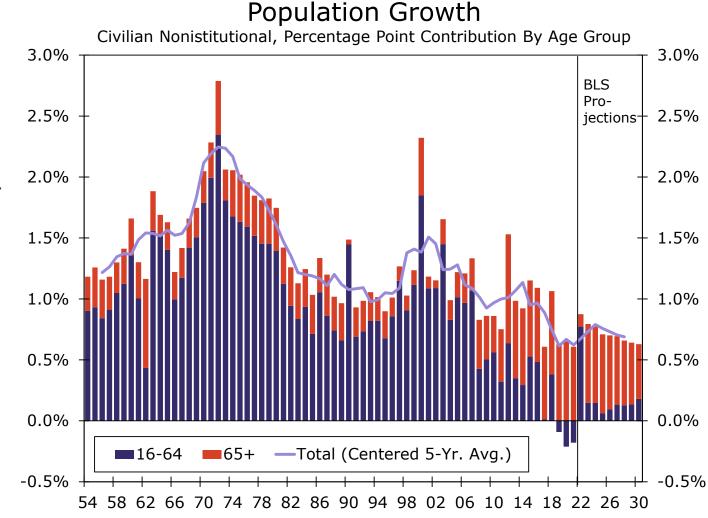
The demand and supply of labor are only tip-toeing back toward balance. The recovery in supply remains highly uneven.

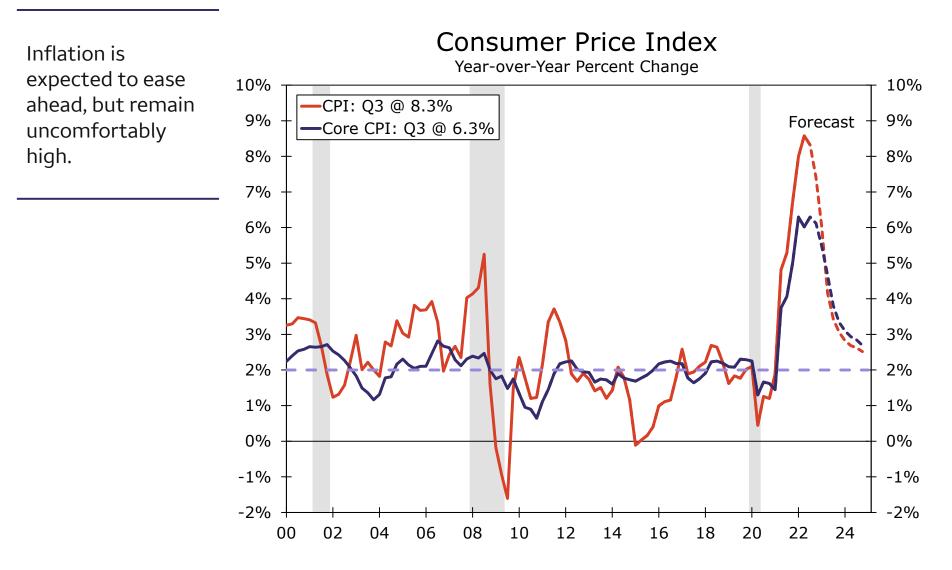


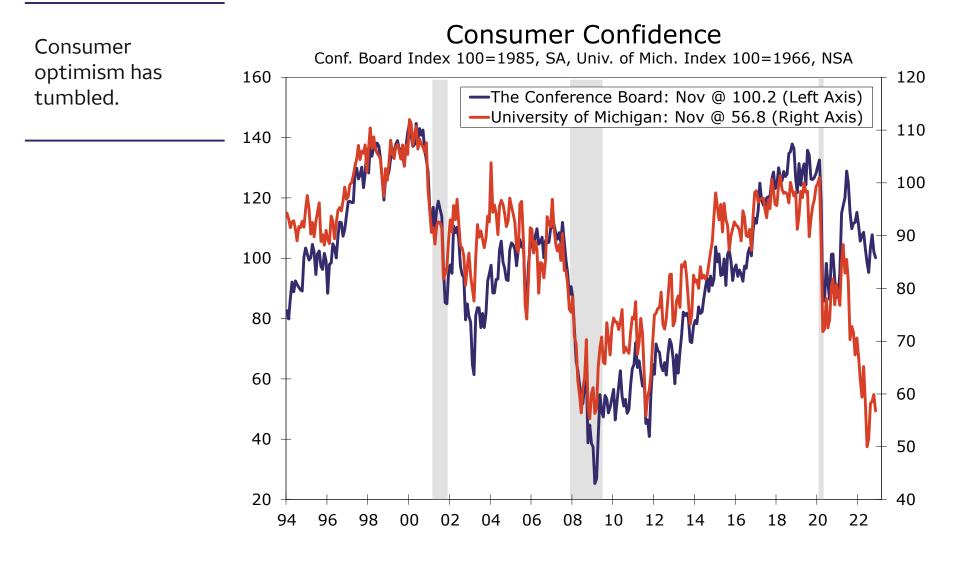
Some labor market exits have proved stickier than others. Illness and care constraints remain a hurdle to attendance and some workers re-joining the labor force

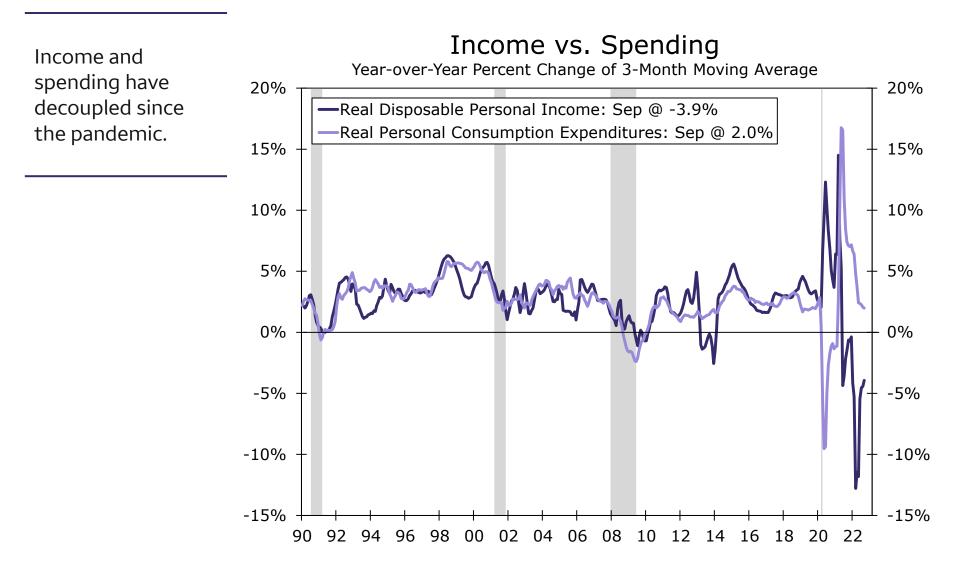


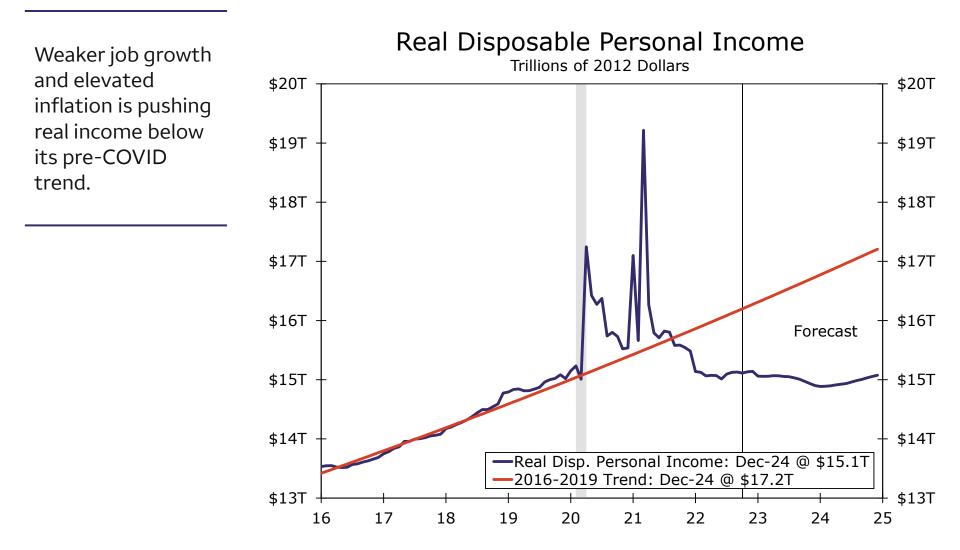




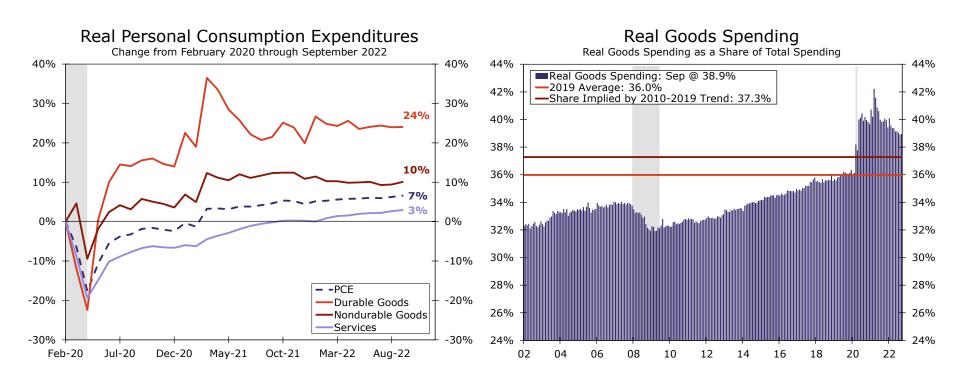




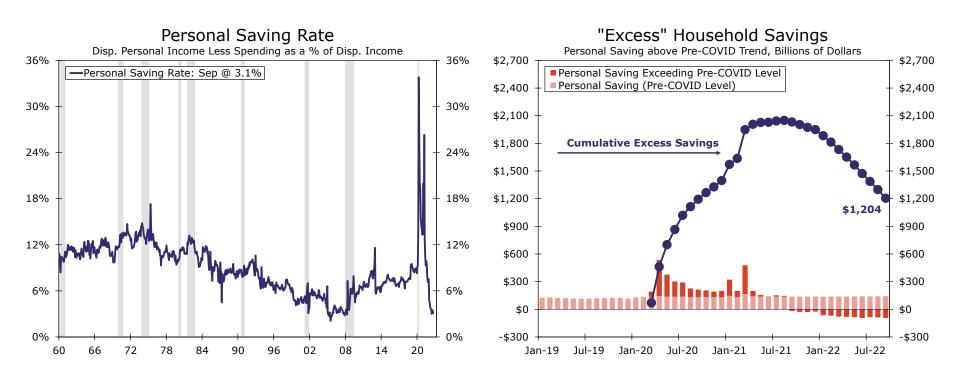




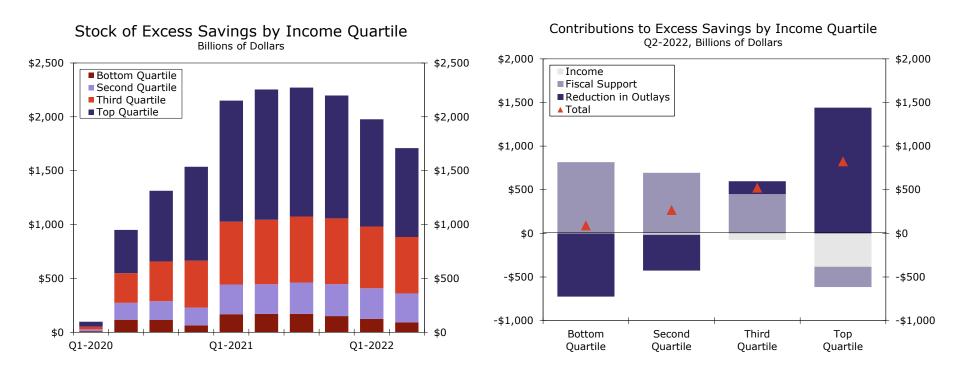
Source: U.S. Department of Commerce and Wells Fargo Economics Forecast as of 11/10/2022 Consumer spending has remained resilient. While spending patterns remain transformed by the pandemic, the advance in real spending is being driven by services so far this year.

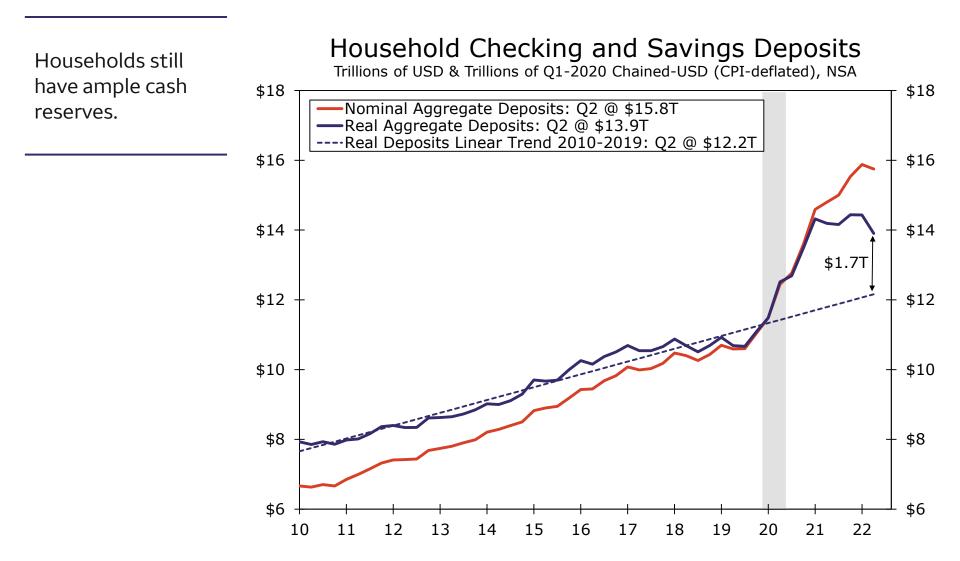


Consumers are leaning more on their balance sheets to spend. They're saving less and relying on excess savings accumulated over the pandemic.

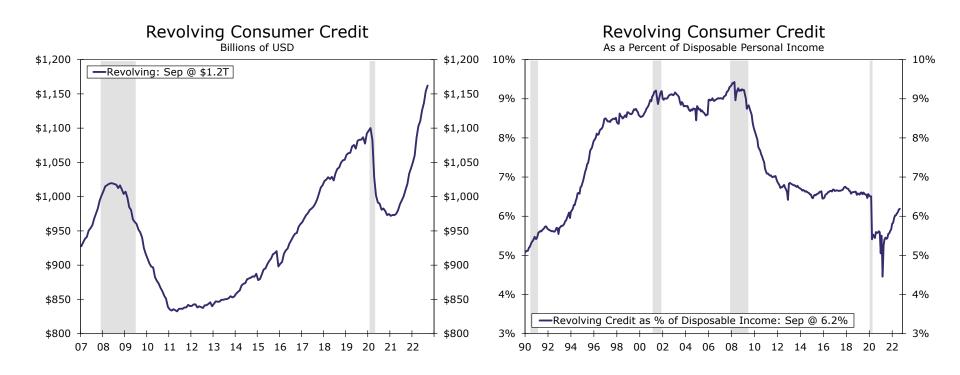


All income quartiles experienced an increase in excess savings, though most of the excess stock is concentrated in higher-income quartiles.

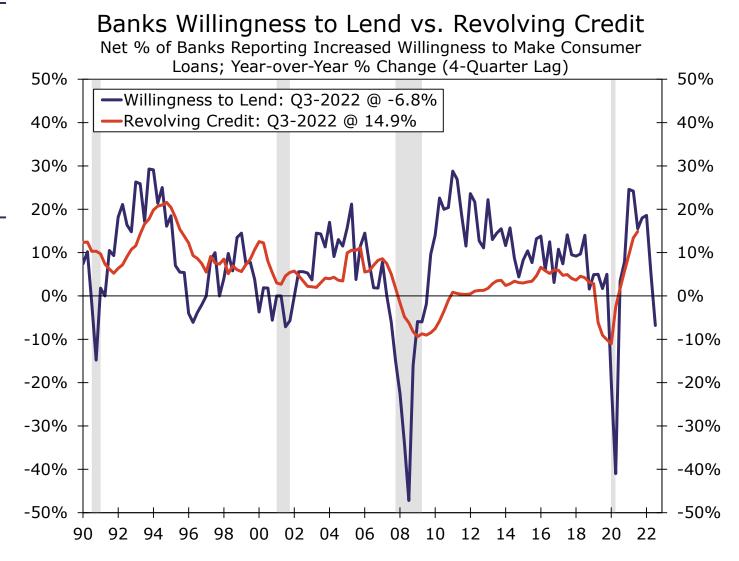




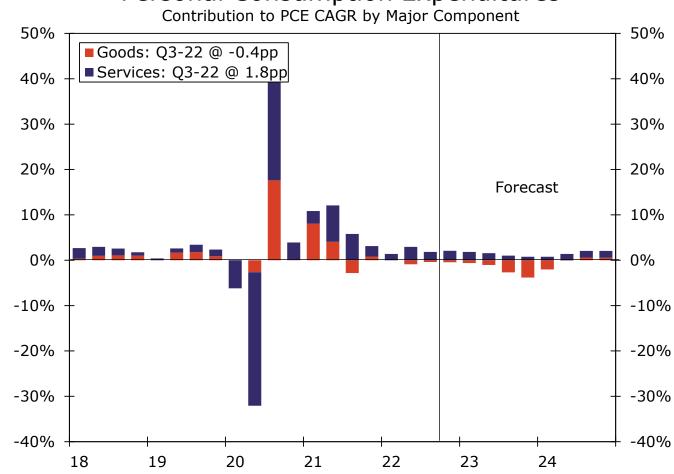
Consumers are also increasingly tapping sources of credit to consume. Household debt payments remain broadly manageable.



Banks' willingness to make loans to consumers is slipping, which spells trouble for revolving credit.

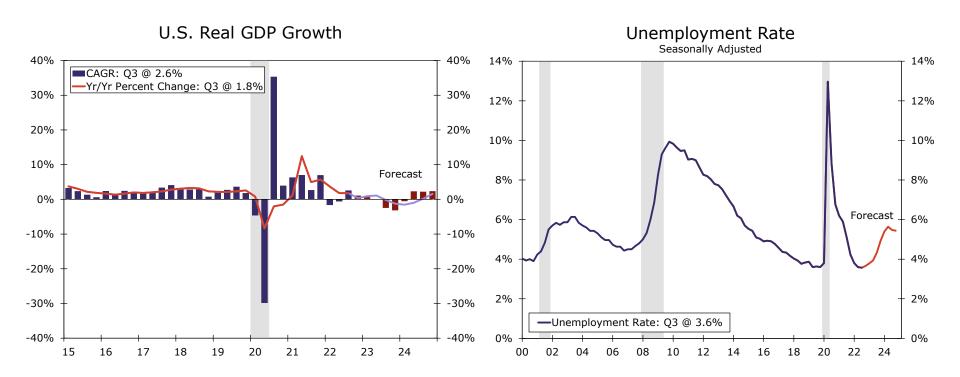


As rates move higher, inflation persists and businesses begin to shed workers, we expect households to pull back on spending.

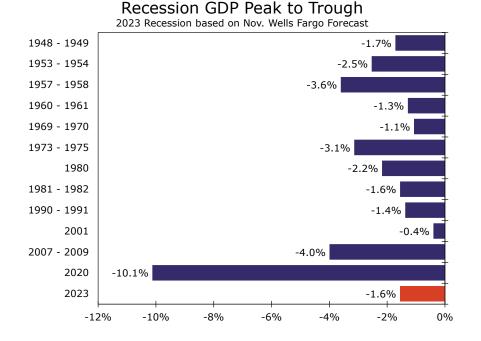


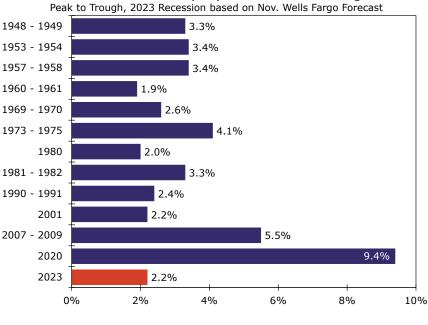
Personal Consumption Expenditures

We expect the economy to slip into a mild recession next year. The pullback in demand will cause businesses to shed workers, but the recent short supply of labor will likely prevent a massive round of layoffs.

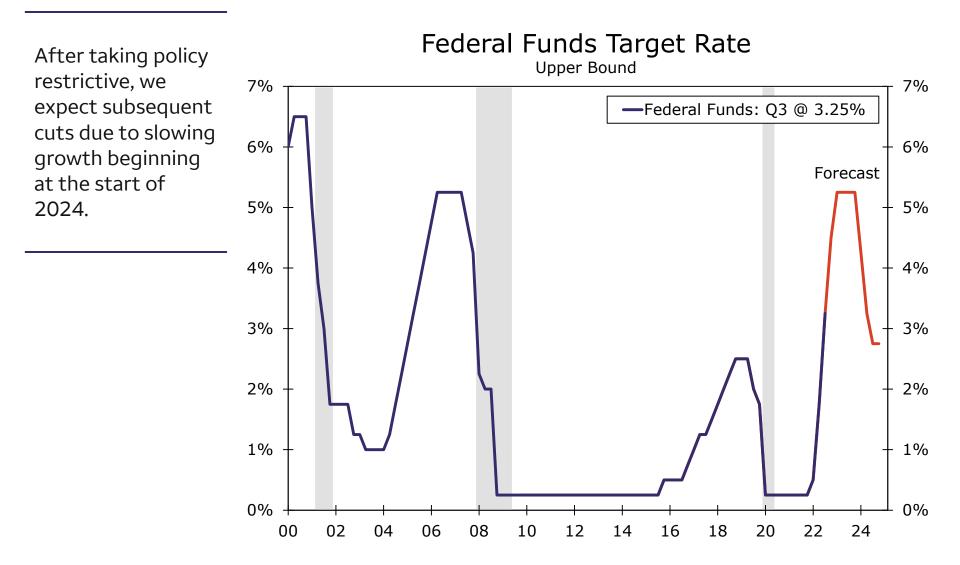


While we expect the Fed's efforts to tame inflation to tip the economy into a recession, we do not expect the downturn to be as severe the recessions in most recent memory.



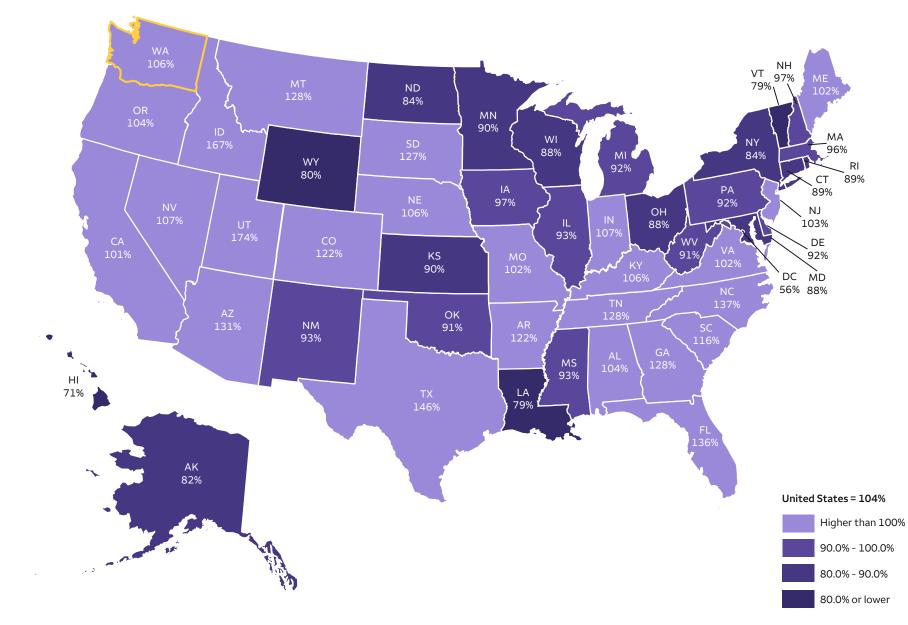


Recession Unemployment Rate Change

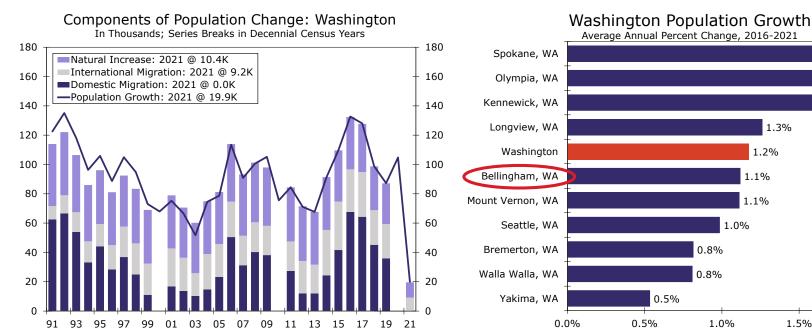


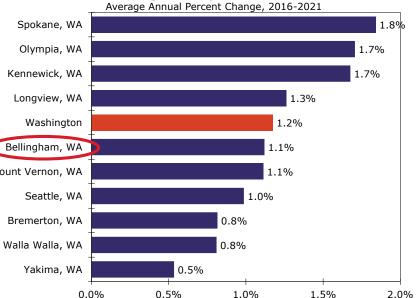
Regional Commentary

Percent of COVID Job Losses Recovered – October 2022



Population growth slowed to a crawl during the pandemic but conditions were favorable previously and likely recovered somewhat this year.





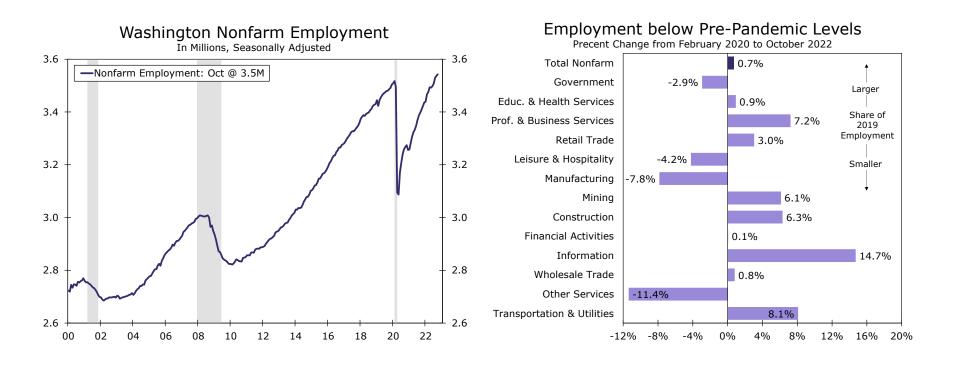
There is a growing body of evidence of an affordability migration to traditionally smaller, secondary markets across the South and in parts of the West.

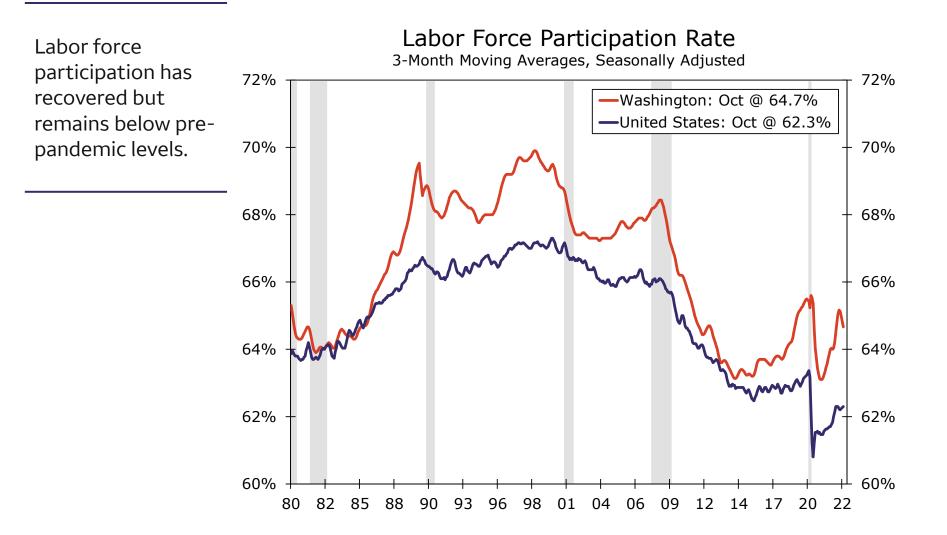
Cities that Gained the Most Workers

LinkedIn Population Gain per 10,000 Members, Over Past 12 Months

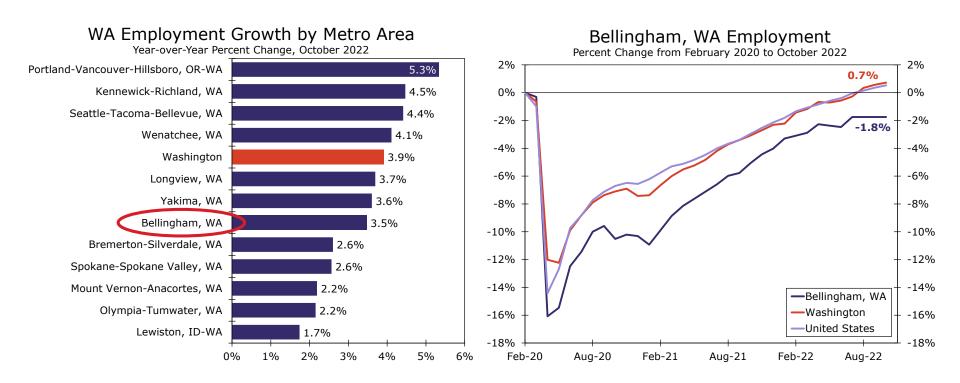


Employment is now 0.7% above its pre-pandemic level in Washington, with the profile of prepandemic jobs still missing similar to that seen across the nation.

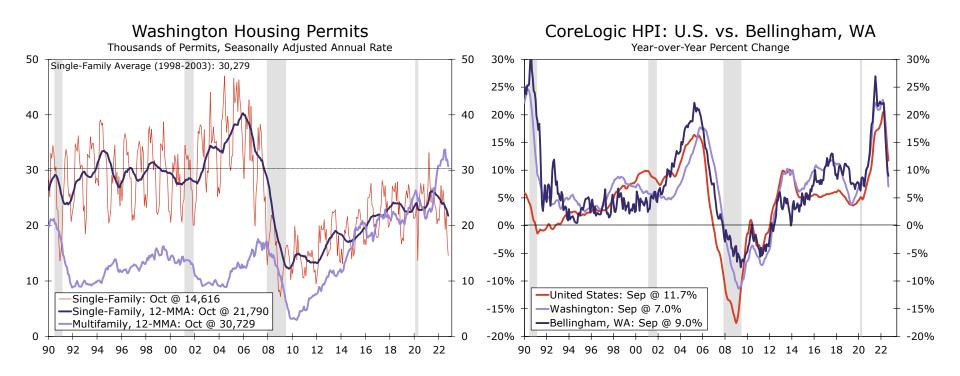




Bellingham has seen job growth slightly below the statewide average in Washington over the past year, and total employment in the metro still remains below pre-pandemic levels.

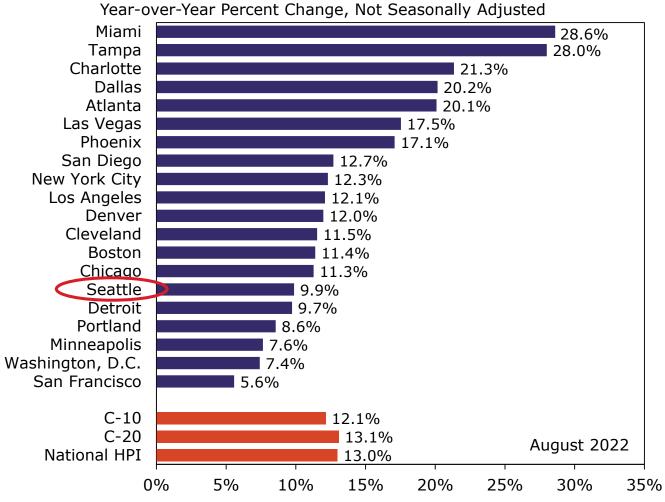


Multifamily permits appear to be meaningfully outpacing single-family permits in Washington. Home prices have rolled over in the region as they have in the broader U.S.



Markets where home prices shot the highest are now vulnerable to a disproportionate swing to the downside.

S&P CoreLogic Case-Shiller Home Prices



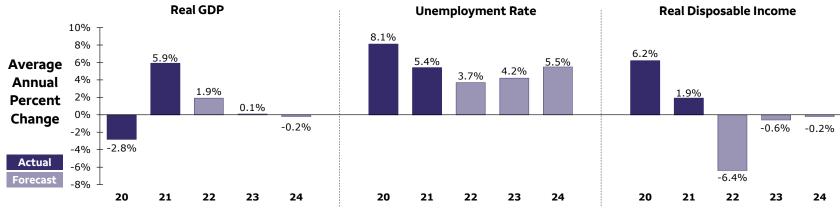
Wells Fargo U.S. Economic Forecast																
		Actual						Forecast		Actual	Forecast					
	2022						-	20	24		2021	2022	2023	2024		
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q				
Real Gross Domestic Product ¹	-1.6	-0.6	2.6	1.1	0.7	0.1	-2.5	-3.2	-0.5	2.3	2.2	2.4	5.9	1.9	0.1	-0.2
Personal Consumption	1.3	2.0	1.4	1.5	1.2	0.5	-1.7	-3.0	-1.3	1.3	2.0	2.0	8.3	2.7	0.6	-0.5
Business Fixed Investment	7.9	0.1	3.7	5.7	1.7	1.2	-2.7	-3.9	-1.6	1.5	3.3	4.4	6.4	3.7	1.6	-0.5
Equipment	11.4	-2.0	10.8	8.0	1.5	1.3	-3.9	-6.1	-2.6	1.7	3.5	4.3	10.3	5.0	2.3	-1.2
Intellectual Property Products	10.8	8.9	6.9	6.9	2.9	2.0	-1.8	-2.2	-0.4	2.2	3.7	5.5	9.7	8.9	3.4	0.6
Structures	-4.3	-12.7	-15.3	-4.5	-1.3	-1.5	-2.1	-2.4	-2.4	-1.9	1.2	1.5	-6.4	-9.1	-4.8	-1.5
Residential Investment	-3.1	-17.8	-26.4	-21.0	-20.5	-18.0	-15.5	-10.8	-5.4	3.5	5.4	8.2	10.7	-10.2	-19.7	-5.0
Government Purchases	-2.3	-1.6	2.4	0.1	1.0	1.1	1.1	1.2	1.2	1.3	1.4	1.4	0.6	-1.0	0.9	1.2
Net Exports ²	-3.1	1.2	2.8	-0.2	-0.2	-0.3	0.3	0.7	0.5	-0.3	-0.2	-0.3	-1.7	-0.7	0.4	0.2
Inventories ²	0.2	-1.9	-0.7	0.1	0.3	0.2	-1.0	-1.0	0.0	1.2	0.1	0.1	0.2	0.7	-0.3	0.0
Nonfarm Payroll Change ³	539	349	381	229	150	63	- 50	-233	-258	-142	0	125	562	374	-18	-69
Unemployment Rate	3.8	3.6	3.6	3.7	3.8	3.9	4.3	4.9	5.4	5.6	5.5	5.4	5.4	3.7	4.2	5.5
Consumer Price Index 4	8.0	8.6	8.3	7.4	6.0	4.2	3.4	3.1	2.8	2.7	2.6	2.5	4.7	8.1	4.1	2.7
Real Disposable Income ⁴	-12.8	-5.5	-3.9	-2.6	-0.3	0.0	-0.6	-1.2	-0.9	-0.7	0.0	0.9	1.9	-6.4	-0.6	-0.2
Quarter-End Interest Rates 5																
Federal Funds Target Rate	0.50	1.75	3.25	4.50	5.25	5.25	5.25	5.25	4.25	3.25	2.75	2.75	0.25	2.50	5.25	3.25
Conventional Mortgage Rate	4.42	5.81	6.70	6.95	7.00	6.80	6.50	5.80	5.35	5.15	5.00	4.90	2.95	5.97	6.53	5.10
2 Year Note	2.28	2.92	4.22	4.65	4.80	4.70	4.30	3.40	2.95	2.80	2.75	2.75	0.27	3.52	4.30	2.81
10 Year Note	2.32	2.98	3.83	4.15	4.25	4.20	4.00	3.40	3.05	2.95	2.90	2.90	1.45	3.32	3.96	2.95

Forecast as of: November 10, 2022

¹ Compound Annual Growth Rate Quarter-over-Quarter

⁴ Year-over-Year Percentage Change

² Percentage Point Contribution to GDP ⁵ Annual Numbers Represent Averages ³ Average Monthly Change



Forecast as of: November 10, 2022

Latest U.S. Forecast available here.

Source: U.S. Department of Commerce, U.S. Department of Labor, Federal Reserve System, Bloomberg Finance L.P. and Wells Fargo Economics

Wells Fargo Economics Group

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