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Outlook for the US consumer

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Apollo Global Management

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Unless otherwise noted, information as of December 2023

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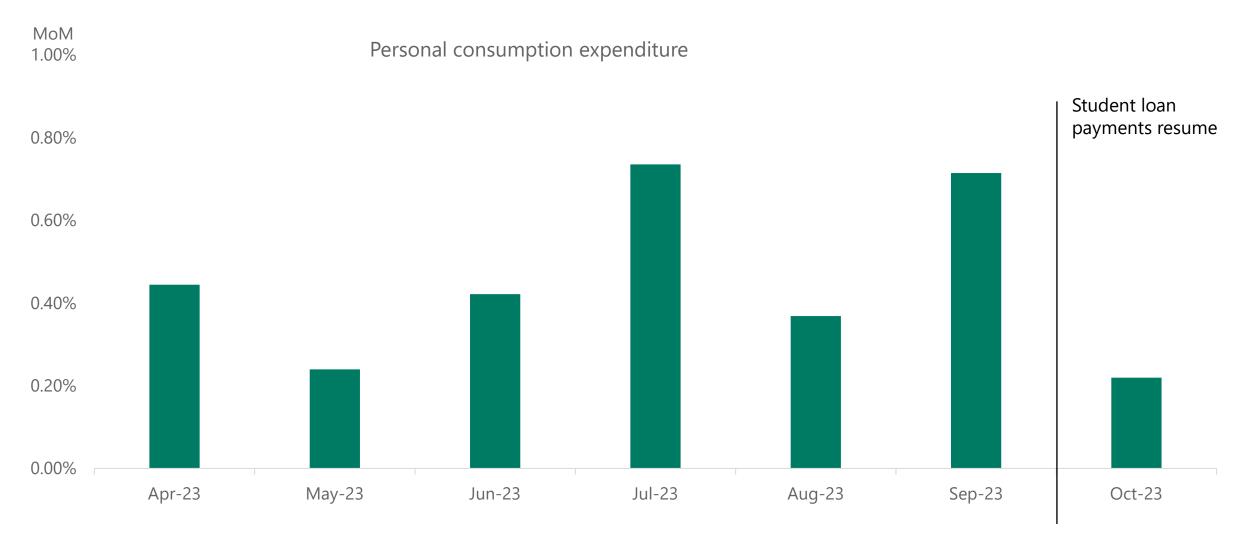
- Overview
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- Health of the household sector balance sheet
- Outlook for spending on housing
- Outlook for spending on cars
- Outlook for spending on restaurants
- Outlook for spending on travel
- Outlook for spending on other consumer goods

Overview

October data shows weakness in retail sales after student loan payments restarted

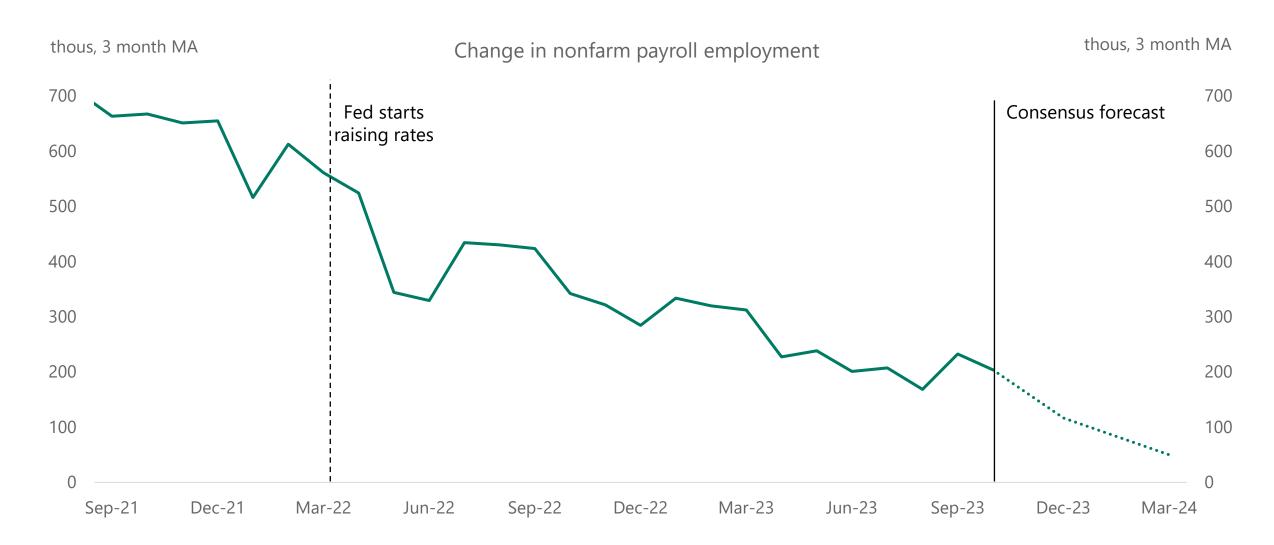


Consumer spending slowed down in October after student loan payments restarted



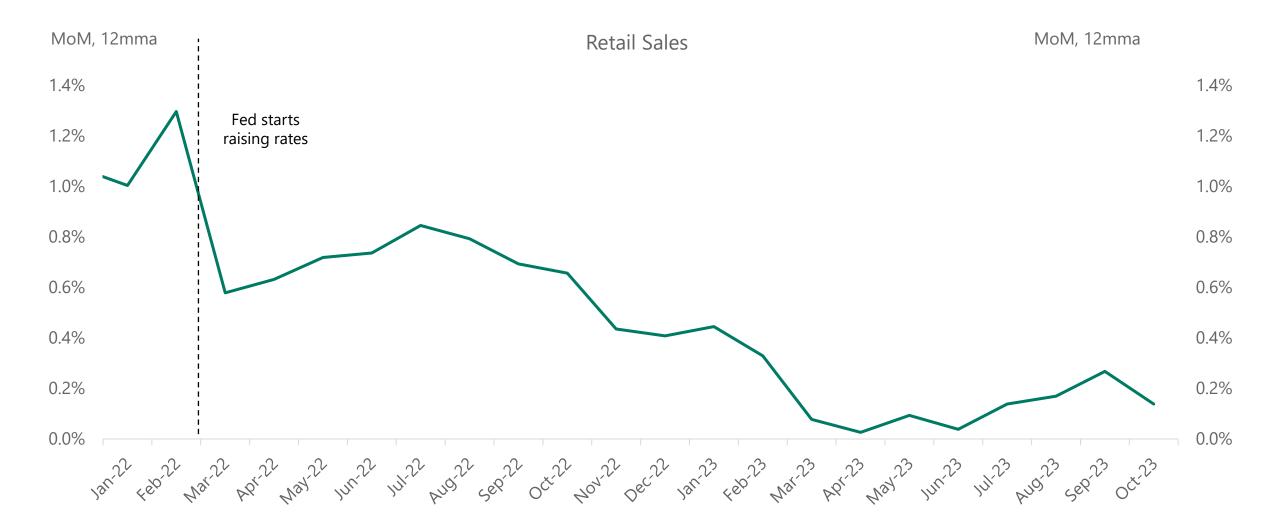
Source: BEA, Haver Analytics, Apollo Chief Economist

The pace of job growth continues to slow

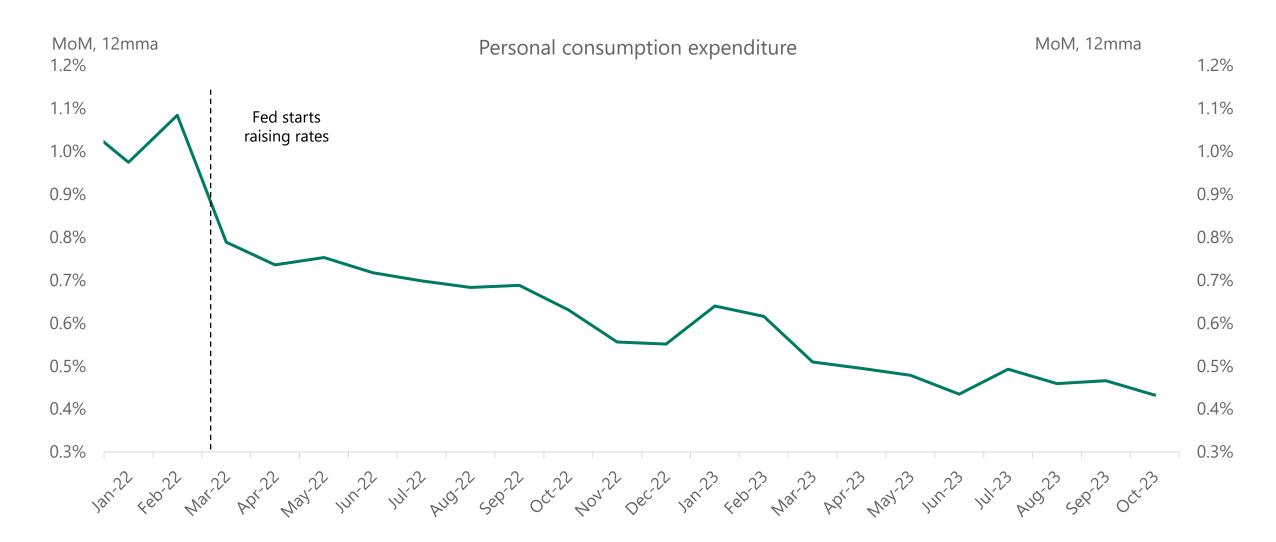


Source: BLS, Haver Analytics, Apollo Chief Economist

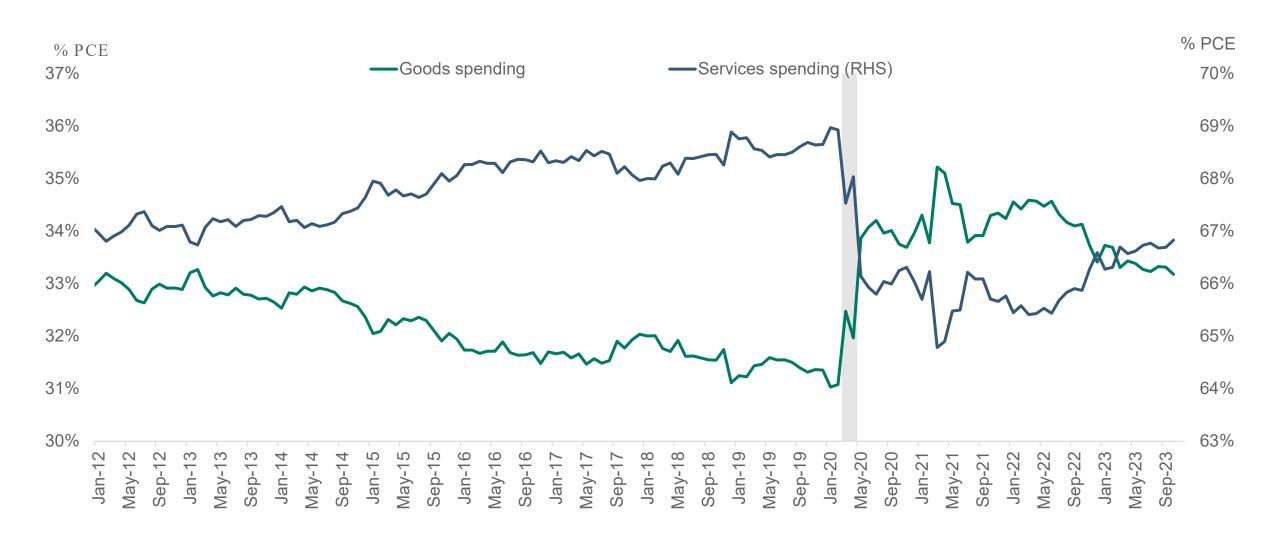
Retail sales slowing down since the Fed started hiking rates



Personal consumer spending has been slowing down since the Fed started hiking



Share of consumer spending on services still below pre-pandemic levels



Source: BEA, Haver Analytics, Apollo Chief Economist

Comparing the level of nominal retail spending today with February 2020 across sectors

	Feb-2020	Mar-2020	Apr-2020	Jan-2021	Sep-2021	Sep-2022	Oct-2022	Jun-2023	Aug-2023	Sep-2023
Total	100	94	83	112	120	130	132	132	133	134
Department Stores excl Leased Departments	100	81	57	96	104	107	105	100	102	102
Shoe Stores	100	54	15	101	100	105	104	103	104	103
Women's Clothing Stores	100	46	15	90	108	107	106	100	103	104
Furniture & Home Furnishing Stores	100	78	39	115	115	114	118	110	107	106
Furniture & Home Furn & Electronics/Appliance Stores	100	80	42	108	112	111	113	108	107	106
Electronics & Appliance Stores	100	82	46	99	107	107	106	106	106	107
Clothing Stores	100	47	11	86	105	111	112	112	116	115
Clothing & Accessory Stores	100	50	13	91	110	115	114	114	116	115
General Merchandise Stores	100	103	92	107	110	119	119	119	121	121
Beer, Wine & Liquor Stores	100	115	106	120	118	121	123	122	122	123
Health & Personal Care Stores	100	105	89	103	110	115	115	122	124	124
Warehouse Clubs & Super Stores	100	106	98	109	111	122	122	123	124	125
Pharmacies & Drug Stores	100	112	100	105	113	116	116	123	125	125
Other General Merchandise Stores	100	108	99	110	111	121	122	123	125	125
Building Materials & Supply Dealers	100	100	98	118	121	132	134	126	127	126
Sporting Goods, Hobby, Book & Music Stores	100	82	55	126	125	129	131	127	127	127
Food & Beverage Stores	100	126	109	110	117	125	127	126	127	127
Grocery Stores	100	128	110	109	117	126	127	126	128	128
All Other Gen Merchandise Stores	100	116	107	113	112	121	121	125	127	129

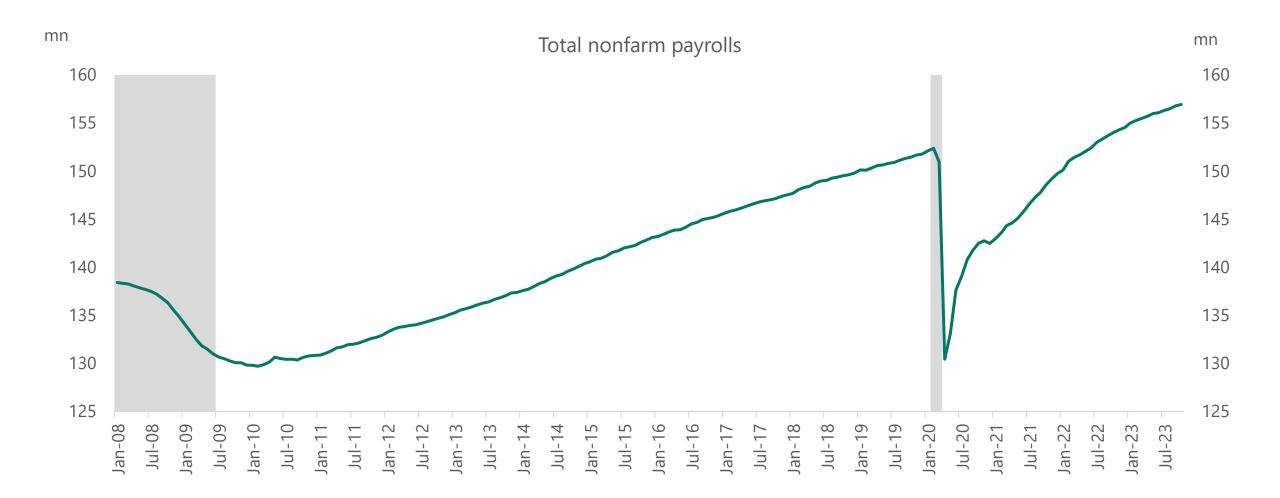
Comparing the level of nominal retail spending today with February 2020 across sectors

	Feb-2020	Mar-2020	Apr-2020	Jan-2021	Sep-2021	Sep-2022	Oct-2022	Jun-2023	Aug-2023	Sep-2023
Total	100	94	83	112	120	130	132	132	133	134
Building Materials, Garden Equipment & Supply Dealers	100	100	99	120	122	135	137	129	130	129
Motor Vehicle Dealers	100	72	61	111	117	122	125	129	129	130
	100		60	444	440	100	105	420	100	404
Motor Vehicle & Parts Dealers	100	74	63	111	118	123	126	130	130	131
Retail Sales & Food Services	100	91	78	108	118	129	131	131	133	134
Miscellaneous Stores Retailers	100	85	62	104	120	131	131	135	128	135
Food Services & Drinking Places	100	70	45	85	109	122	125	131	133	135
Retail Sales & Food Services Excl Motor Vehicles & Parts										
Dealers	100	95	81	108	119	131	132	132	134	135
Total Excl Motor Vehicle & Parts Dealers	100	100	88	112	120	132	134	132	134	135
Gasoline Stations	100	84	65	97	120	142	148	127	136	137
Fuel Dealers	100	92	89	103	118	152	169	129	137	141
Automotive Parts, Acc & Tire Stores	100	91	86	108	121	136	134	143	144	145
Nonstore Retailers/Online	100	106	119	137	143	163	165	172	175	177
Electronic Shopping & Mail Order Houses	100	108	124	141	147	167	168	178	180	183

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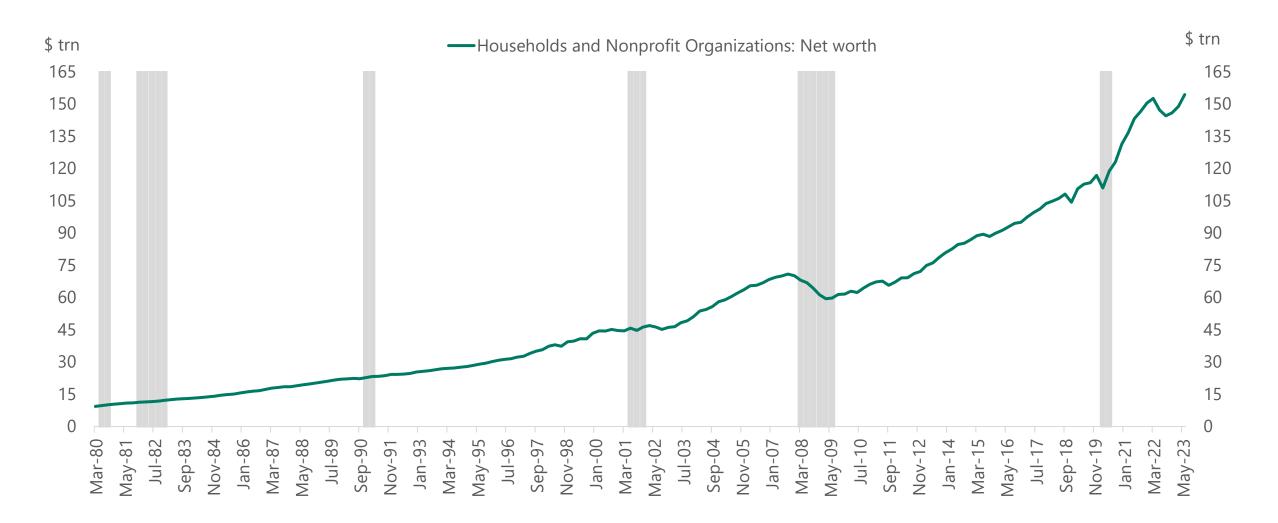
Macro factors driving consumer spending

Total employment is now 4.5 mn jobs above February 2020 levels



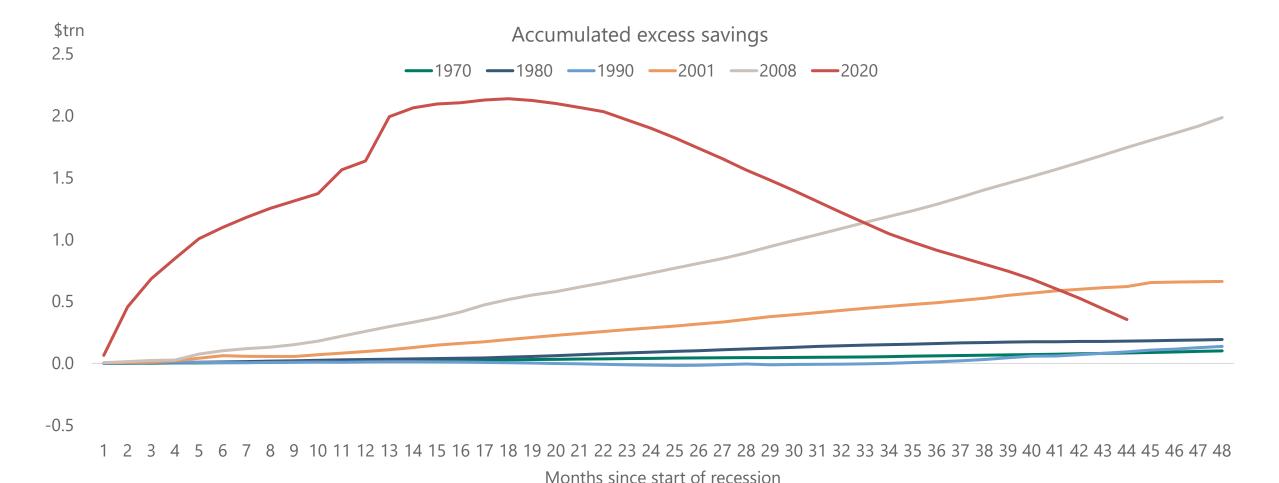
Source: BLS, Apollo Chief Economist

Net worth of the US household sector is near record highs



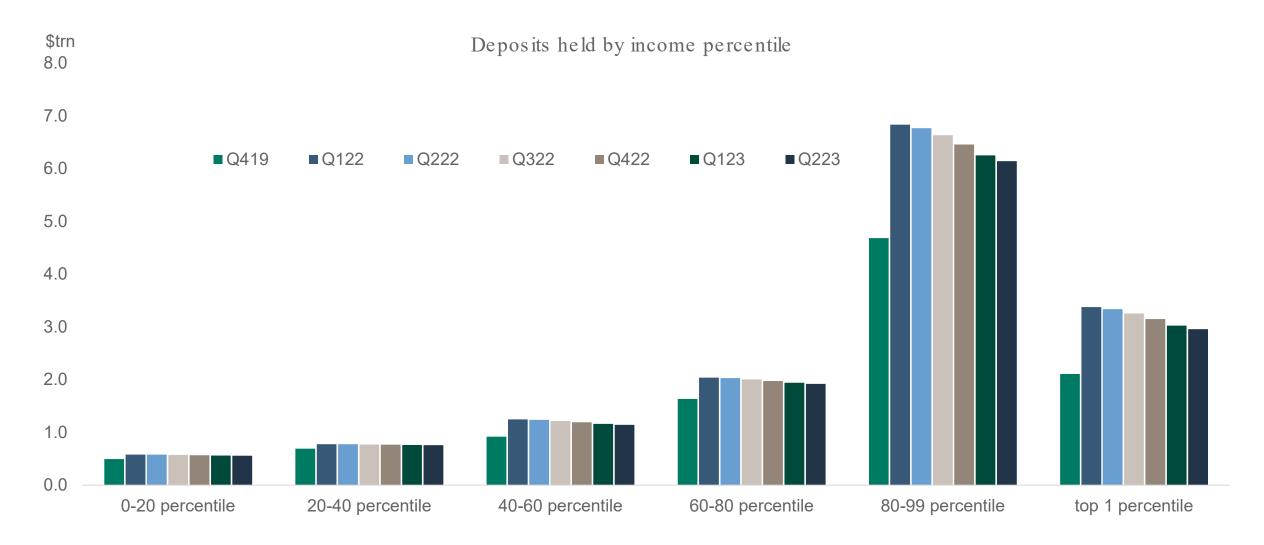
Source: FRB, Haver, Apollo Chief Economist

US households running out of excess savings



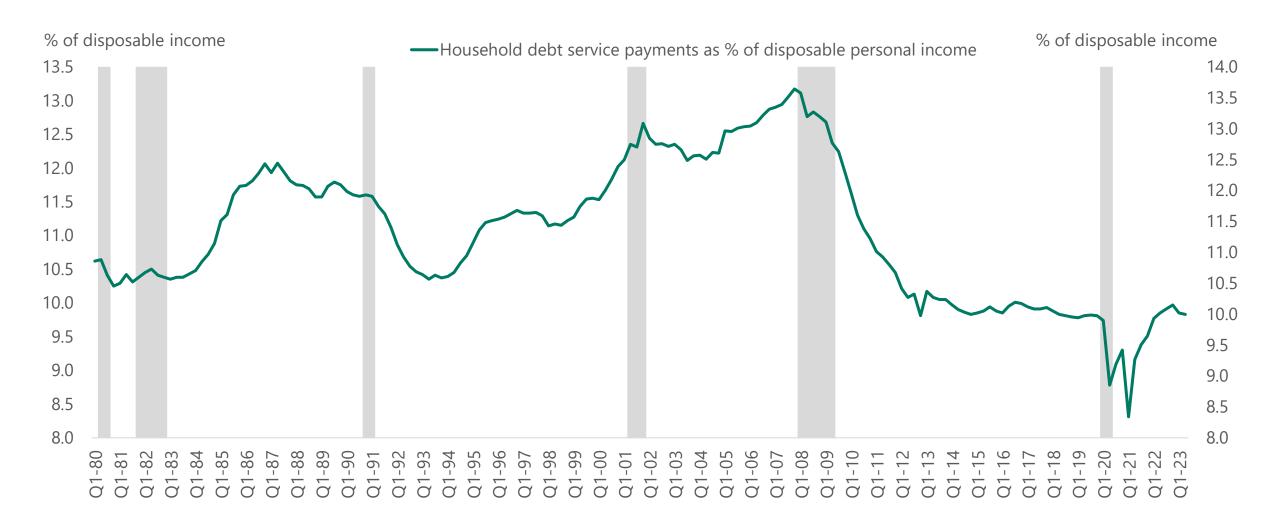
Source: BEA, Haver Analytics, Apollo Chief Economist.

Household savings across income groups



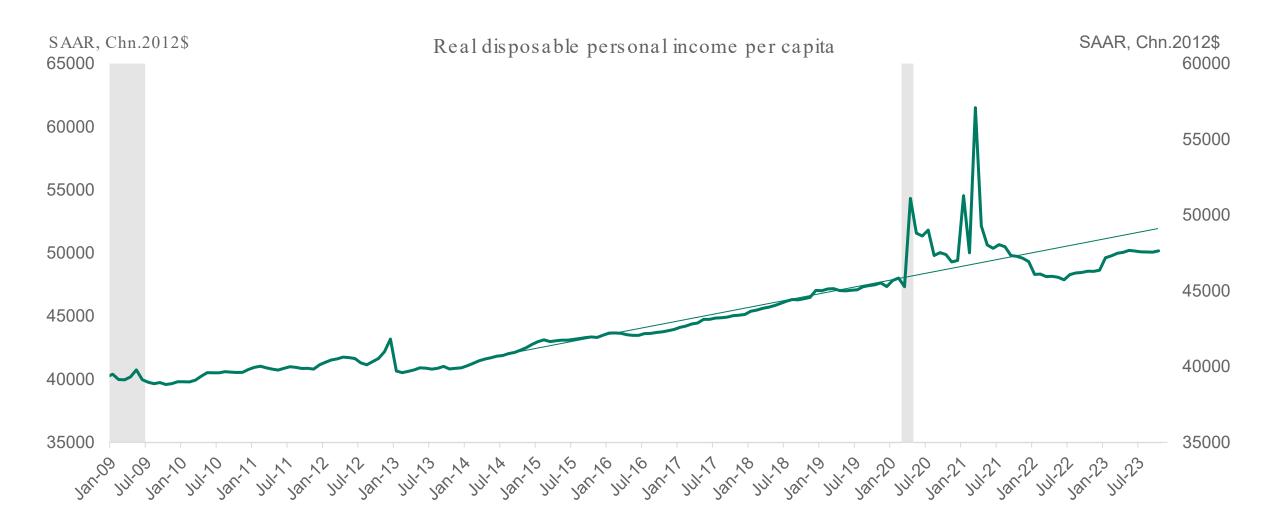
Source: FRB, Haver Analytics, Apollo Chief Economist

Household debt service payments as a share of income



Source: FRB, Haver, Apollo Chief Economist

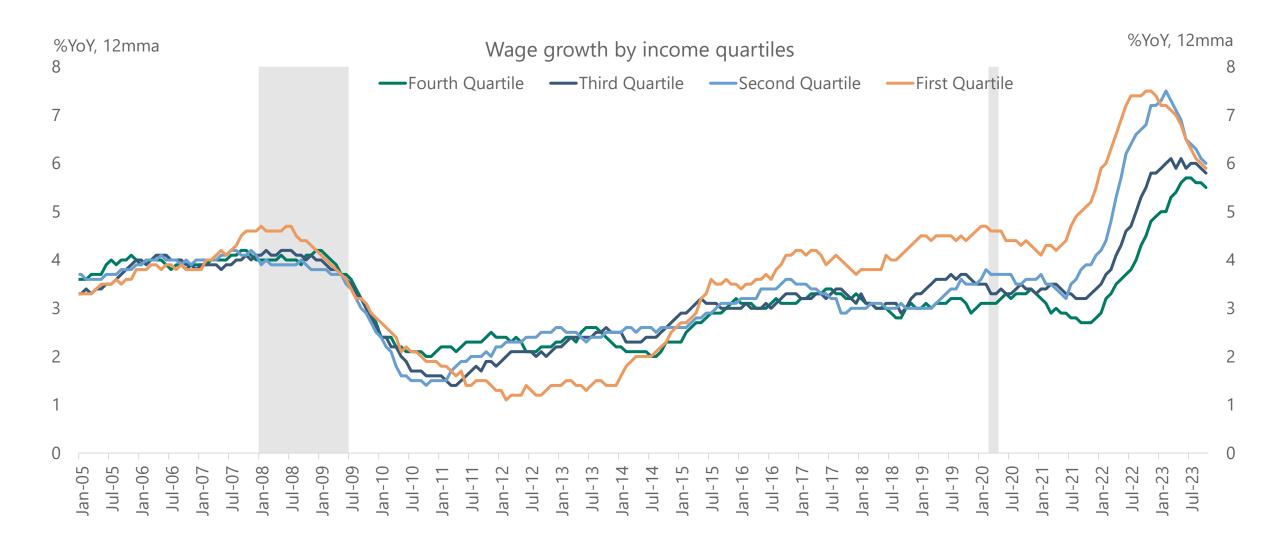
Inflation-adjusted income per capita below the pre-pandemic trend



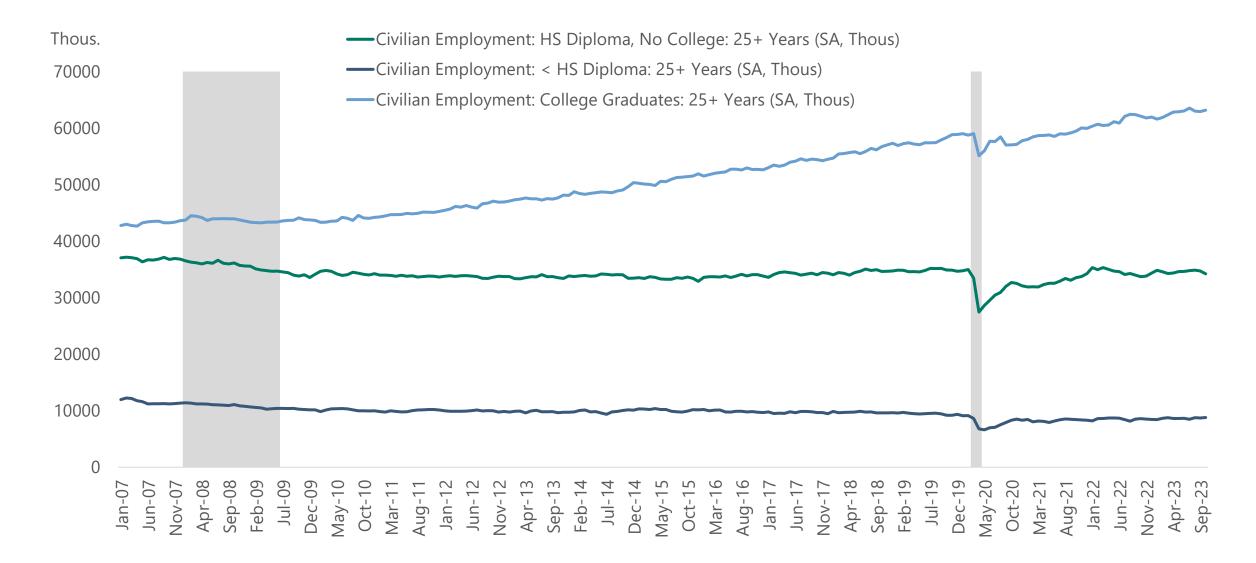
Wage inflation sticky at 4.5%



Wage growth still elevated across the income distribution

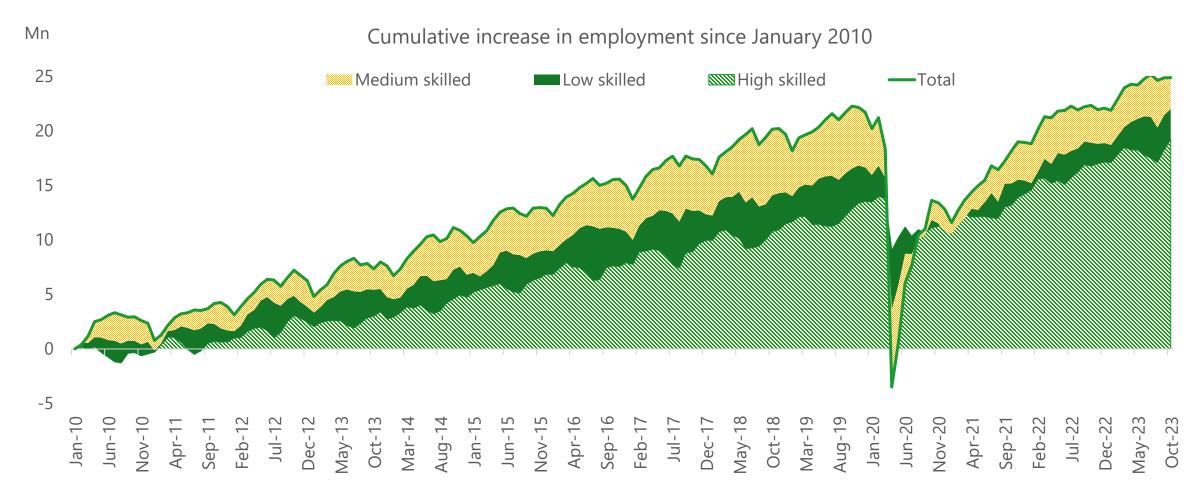


Employment for workers, by education



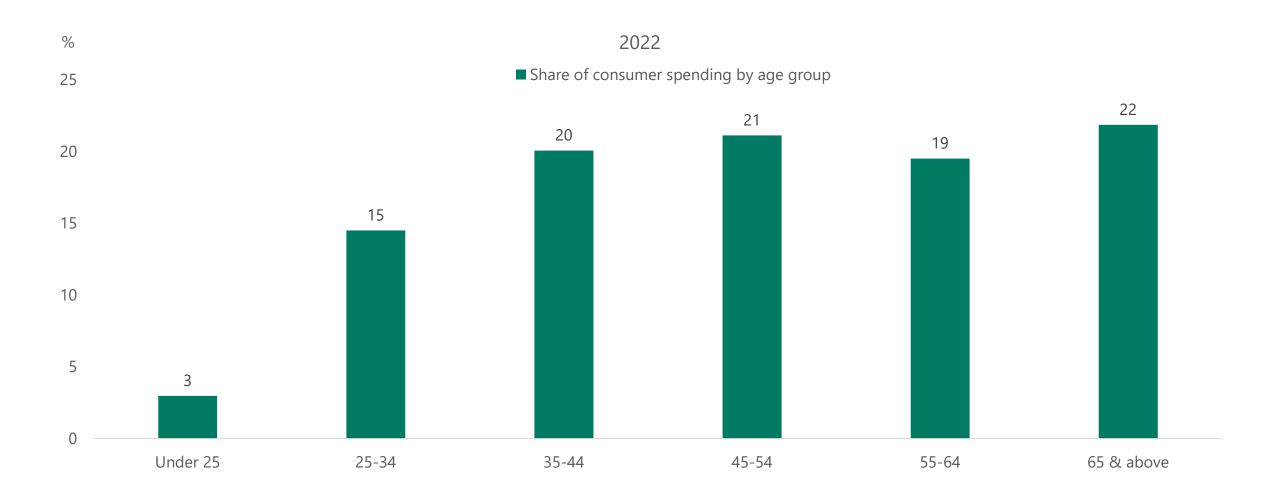
Source: BLS, Haver, Apollo Chief Economist

The composition of employment, by skill



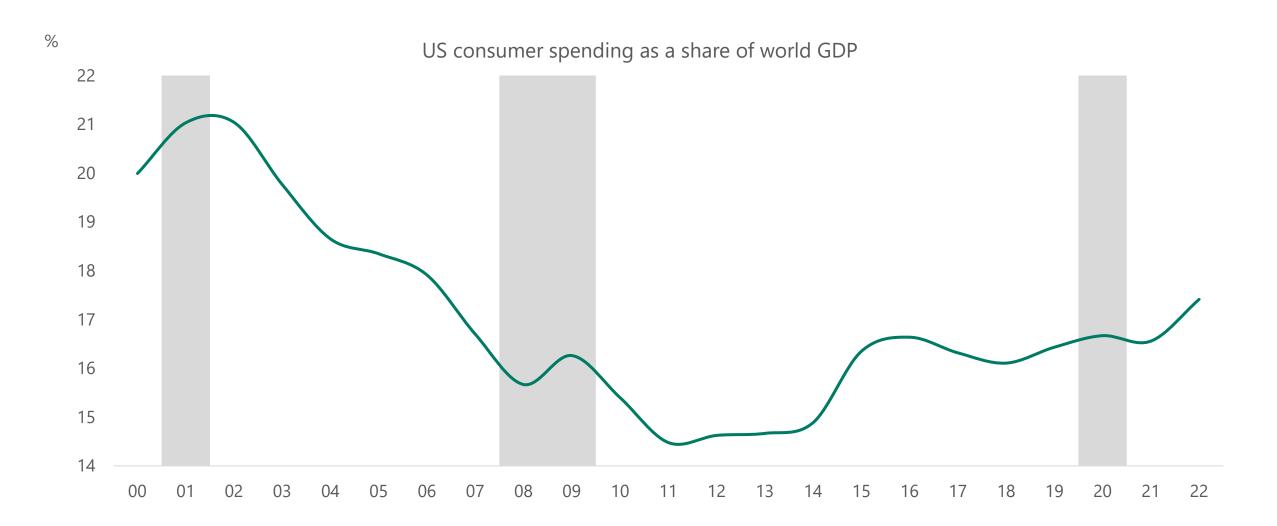
Source: BLS, Haver, Apollo Chief Economist

People age 55 and above account for 41% of total consumer spending



Source: BLS, Haver, Apollo Chief Economist

The US consumer makes up 17% of global GDP

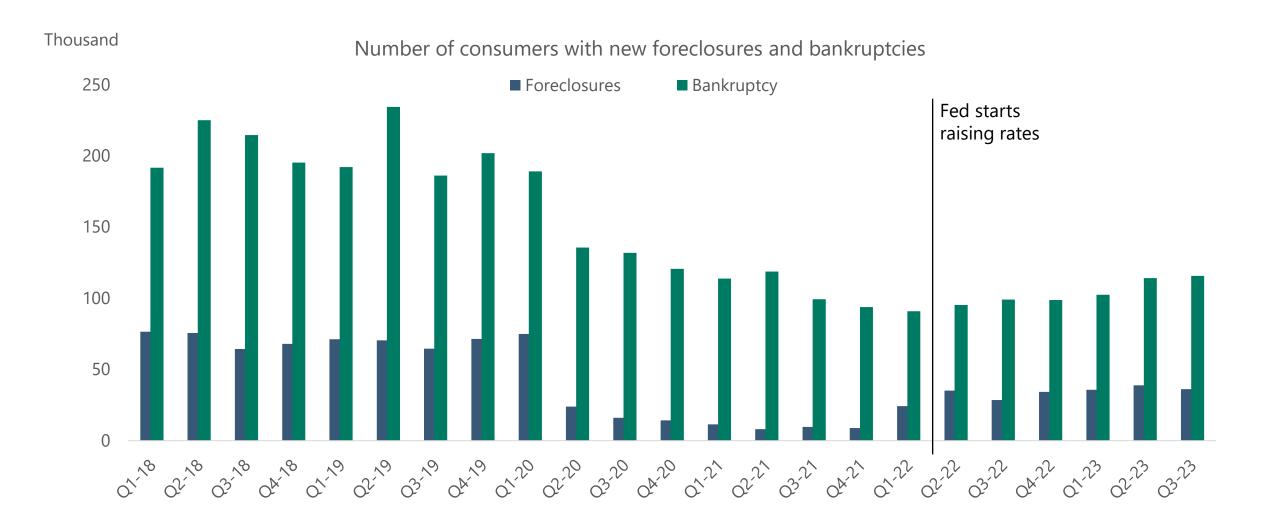


Source: Haver, World Bank, Apollo Chief Economist

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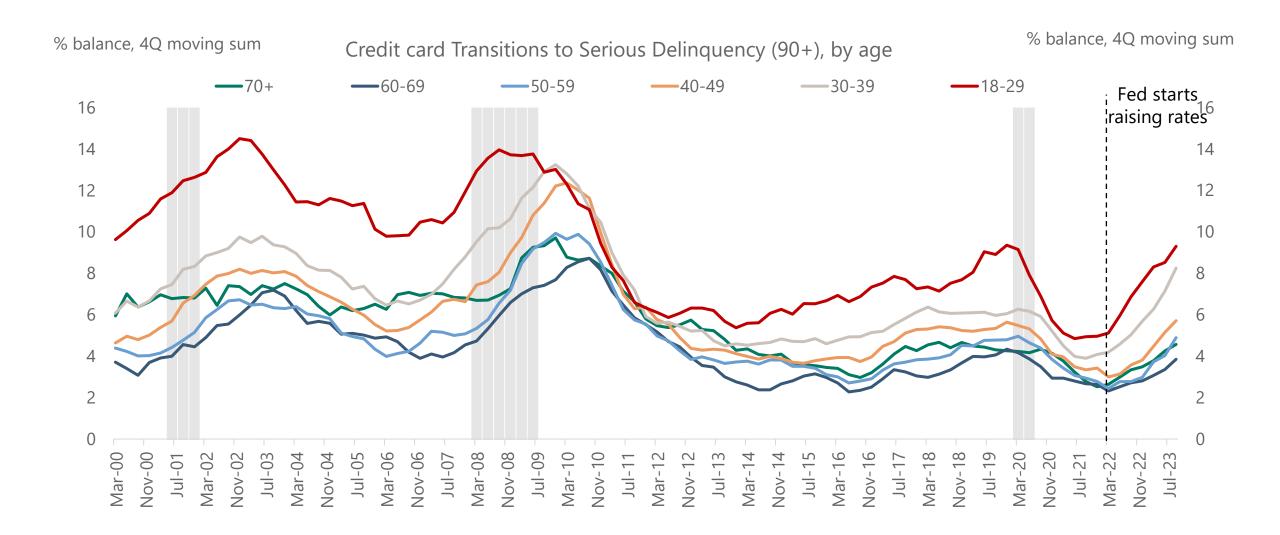
Health of the household sector balance sheet

Foreclosures and bankruptcies starting to rise after the Fed raised rates

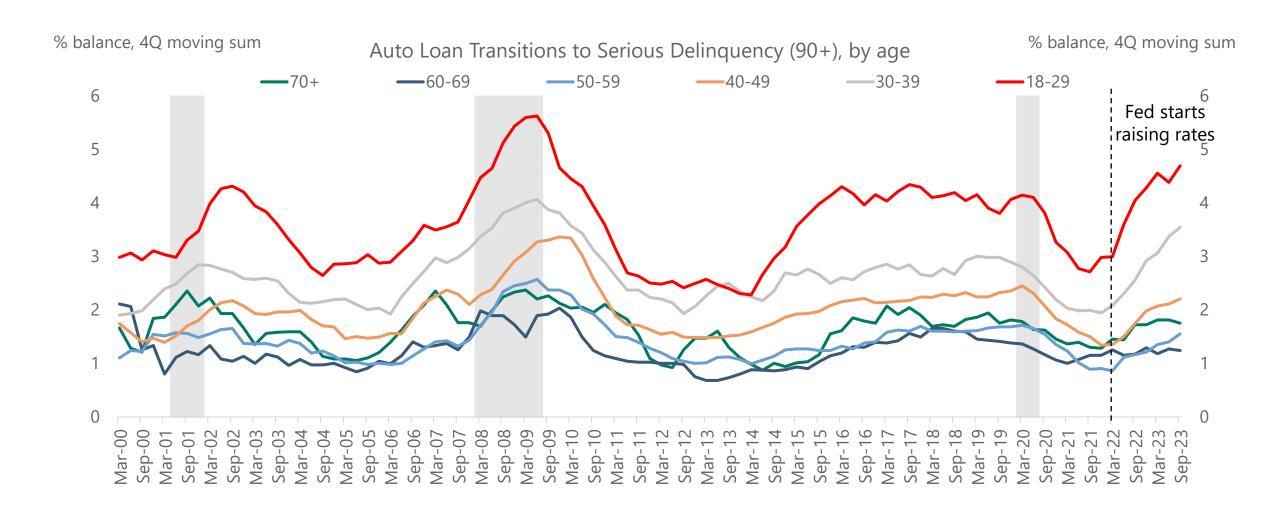


Source: FRBNY, Equifax, Haver, Apollo Chief Economist 27

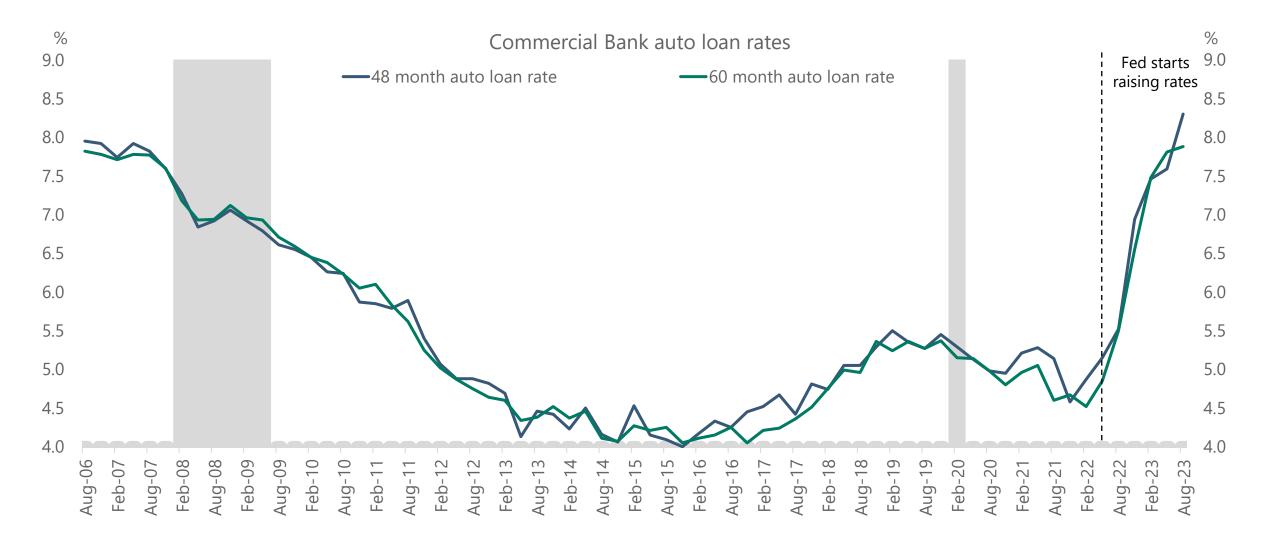
Credit card delinquency rates rising



Auto loan transitions to serious delinquency at 2008 levels

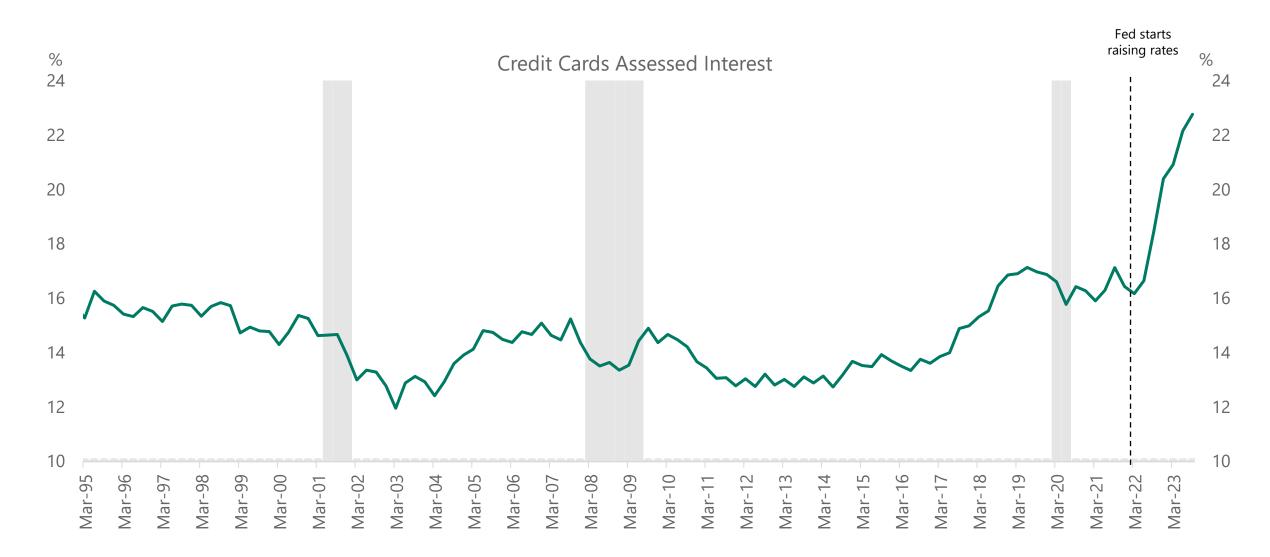


Interest rate on auto loans

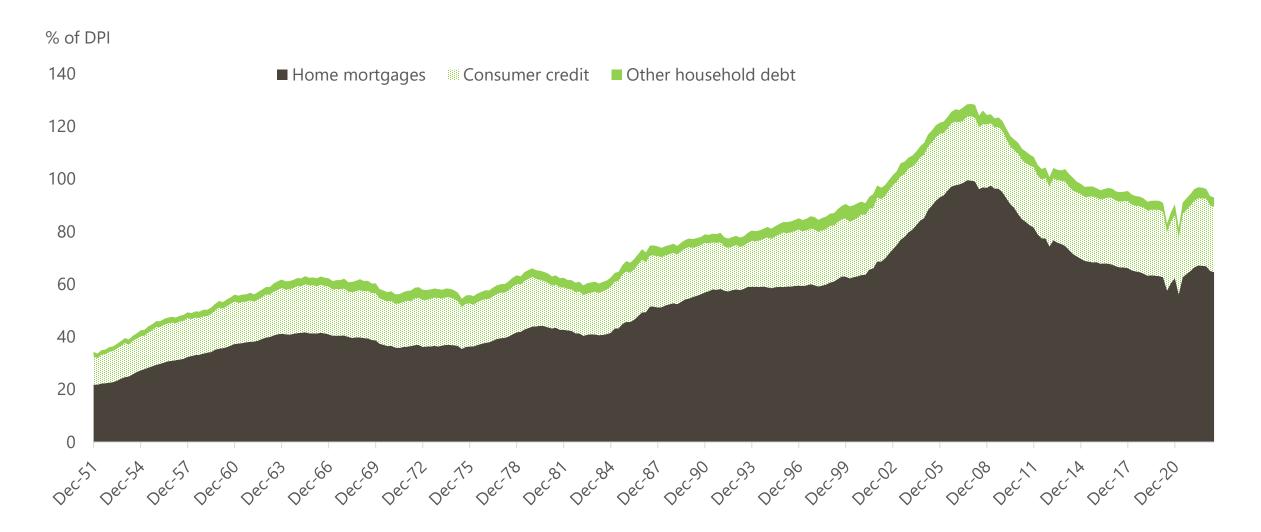


Source: FRB, Bloomberg, Apollo Chief Economist

Interest rate on credit cards at historical highs



Household sector leverage well below 2007 levels



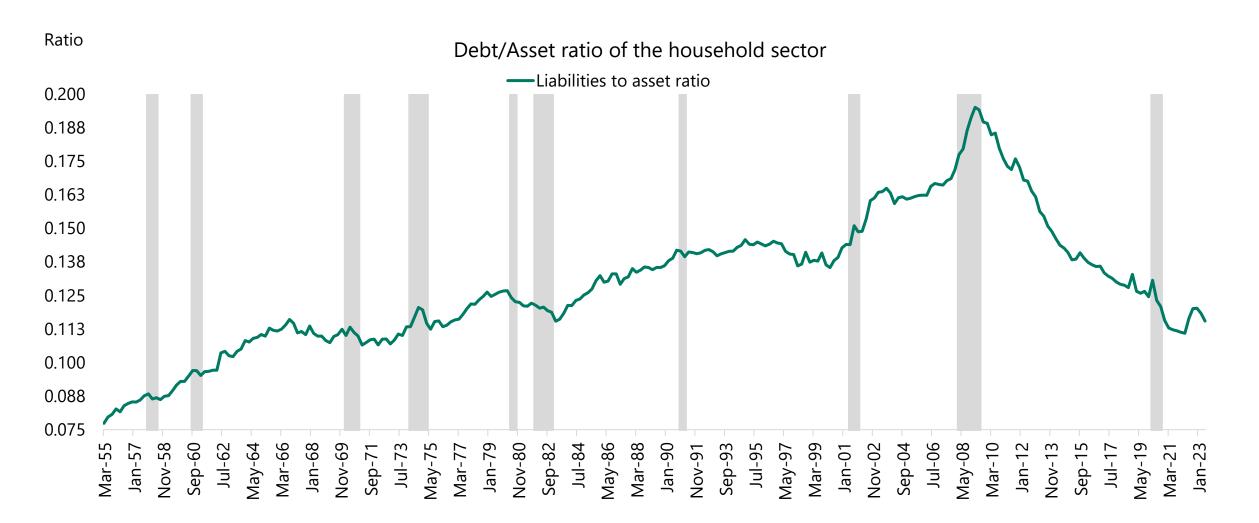
Source: FRB, Haver, Apollo Chief Economist 32

Delinquency rates for auto loans and credit cards across the credit spectrum

Auto Loans										
+60 day delinquency rate					+90 day delinquency rate					
	Oct. 2023	Sep. 2023	Oct. 2022	June 2019		Oct. 2023	Sep. 2023	Oct. 2022	June 2019	
Super Prime	0.0%	0.0%	0.0%	0.0%	Super Prime	0.00%	0.00%	0.00%	0.00%	Current
Prime plus	0.01%	0.01%	0.01%	0.01%	Prime plus	0.01%	0.01%	0.01%	0.01%	30-59 DPD
Prime	0.14%	0.16%	0.13%	0.12%	Prime	0.20%	0.20%	0.18%	0.16%	
Near prime	0.62%	0.62%	0.54%	0.39%	Near prime	1.26%	1.26%	1.08%	1.07%	60-89 DPD
										90+
Subprime	12.69%	12.91%	11.83%	7.39%	Subprime	20.39%	19.82%	18.56%	17.39%	Foreclosure
Total	2.13%	2.12%	1.86%	1.23%	Total	2.39%	2.29%	2.02%	1.71%	Foreciosure

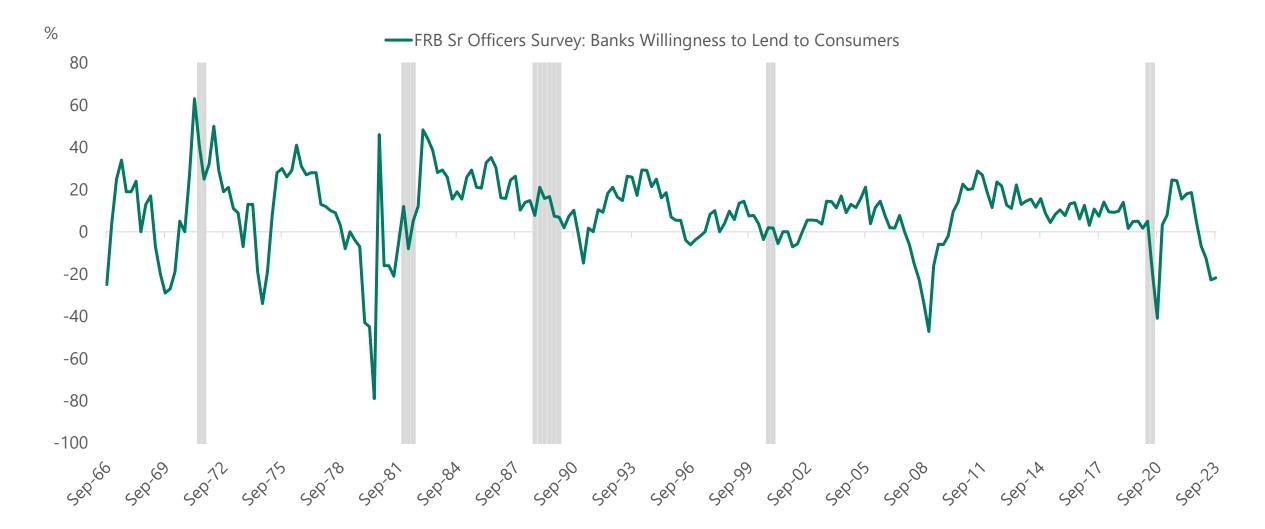
Mortgages										
Distribution of Delinquency										
	Oct. 2023	Sep. 2023	Oct. 2022	June 2019						
Current	94.6%	94.7%	95.3%	94.0%						
30-59 DPD	3.1%	3.0%	2.6%	3.3%						
60-89 DPD	1.5%	1.4%	1.3%	1.7%						
90+	0.8%	0.8%	0.7%	0.9%						
Foreclosure	0.1%	0.1%	0.1%	0.2%						

Household liabilities to assets



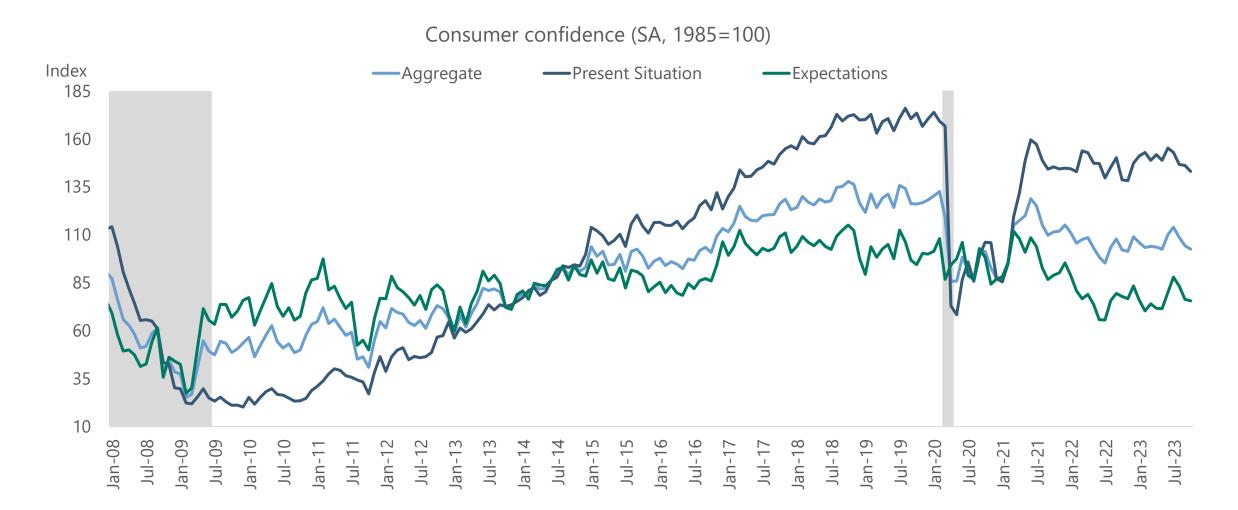
Source: FRB, Haver, Apollo Chief Economist

Banks less willing to lend to consumers



Source: FRB, Haver, Apollo Chief Economist 35

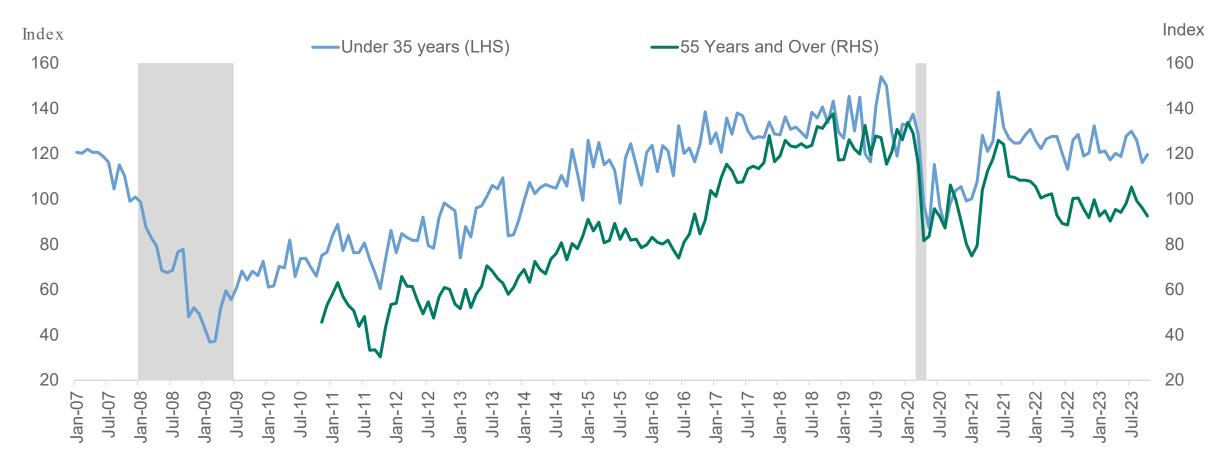
Consumer confidence gradually lower since the Fed started raising rates



Source: Conference Board, Haver Analytics, Apollo Chief Economist

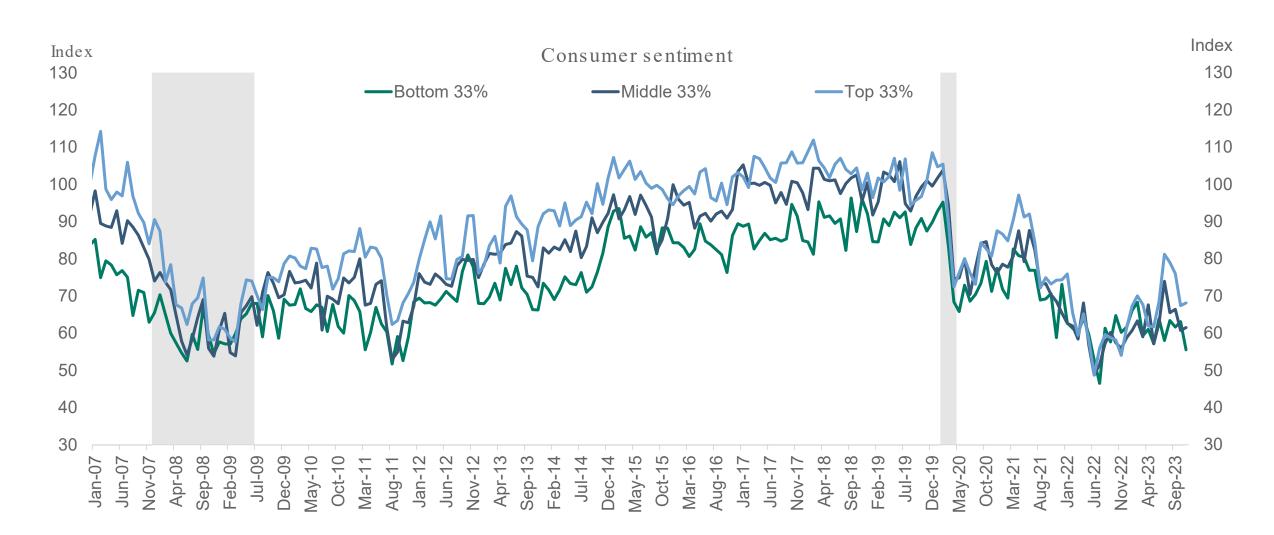
Consumer confidence across generations

Consumer confidence by Age (SA, Index)



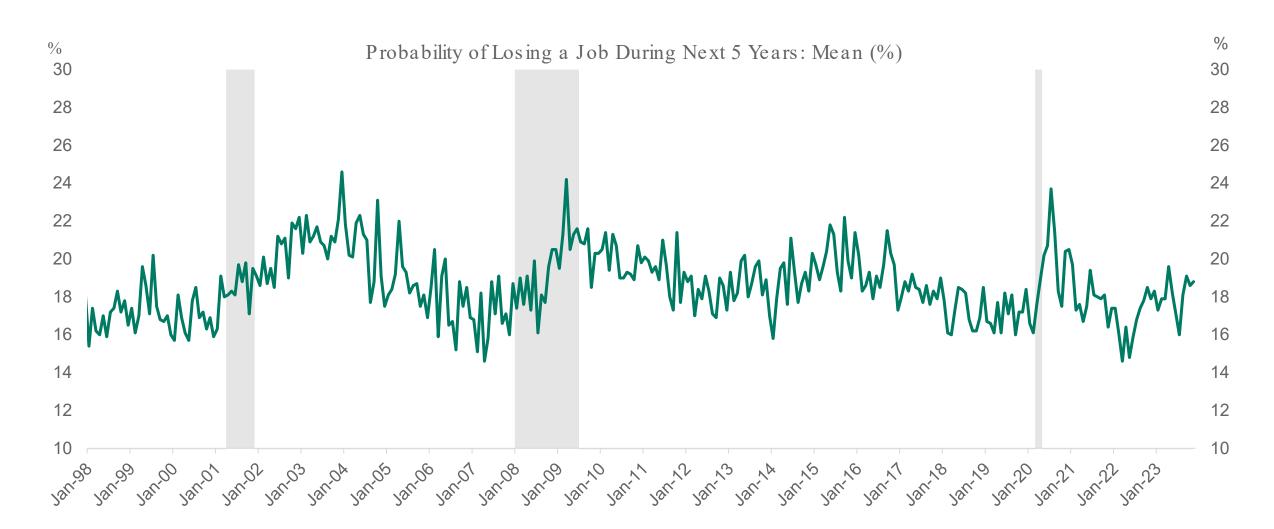
Source: Conference Board, Haver Analytics, Apollo Chief Economist

Consumer sentiment across the income distribution

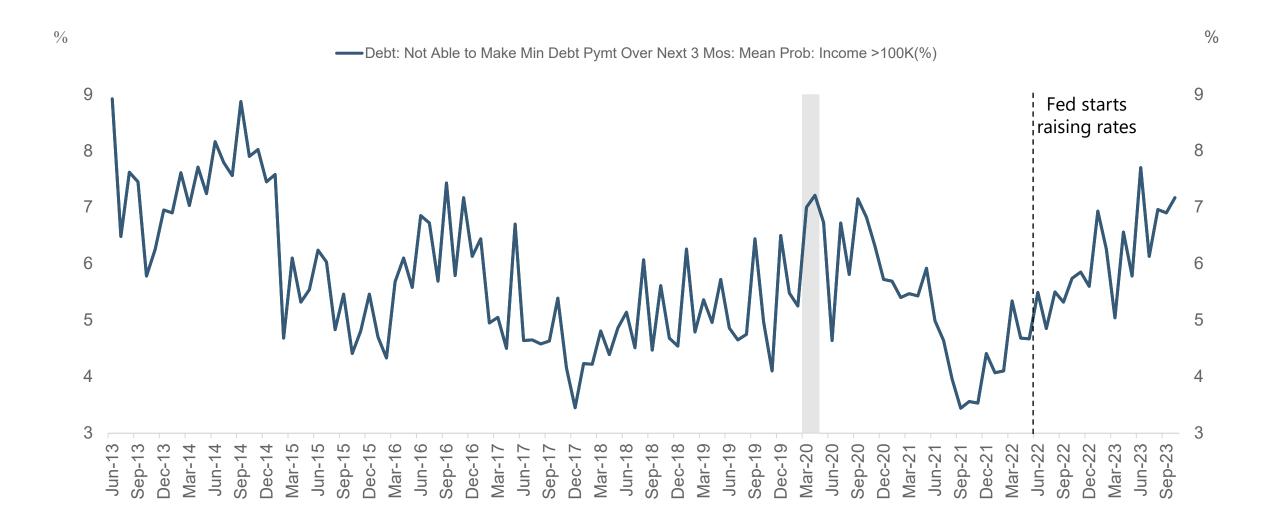


Source: University of Michigan, Haver Analytics, Apollo Chief Economist

Households a bit more worried about losing their jobs



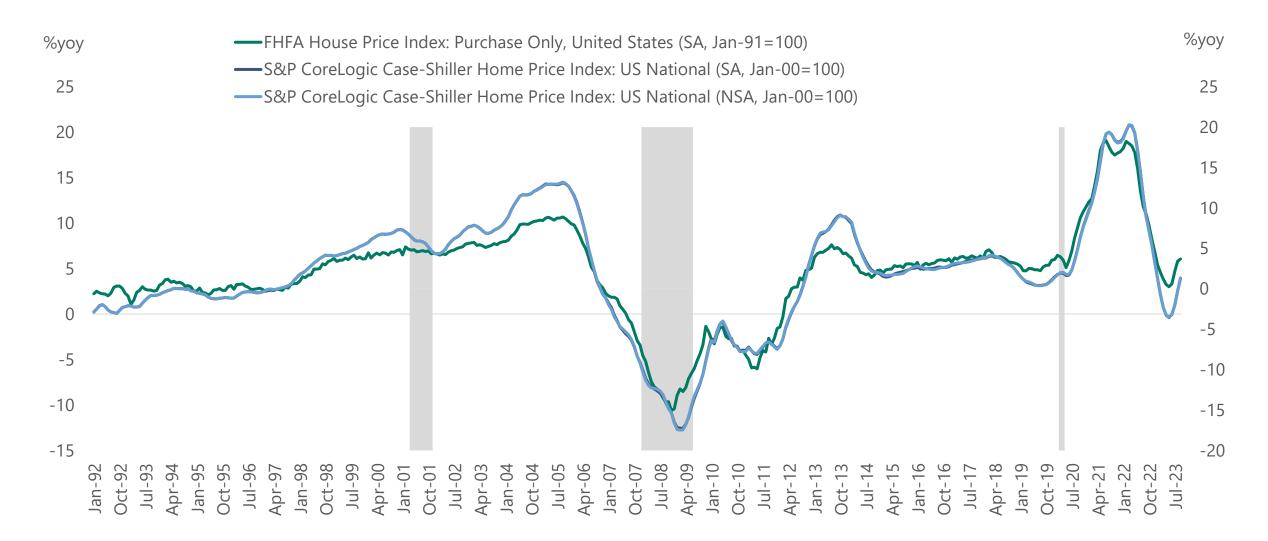
Higher income households starting to worry about whether they can make minimum debt payments



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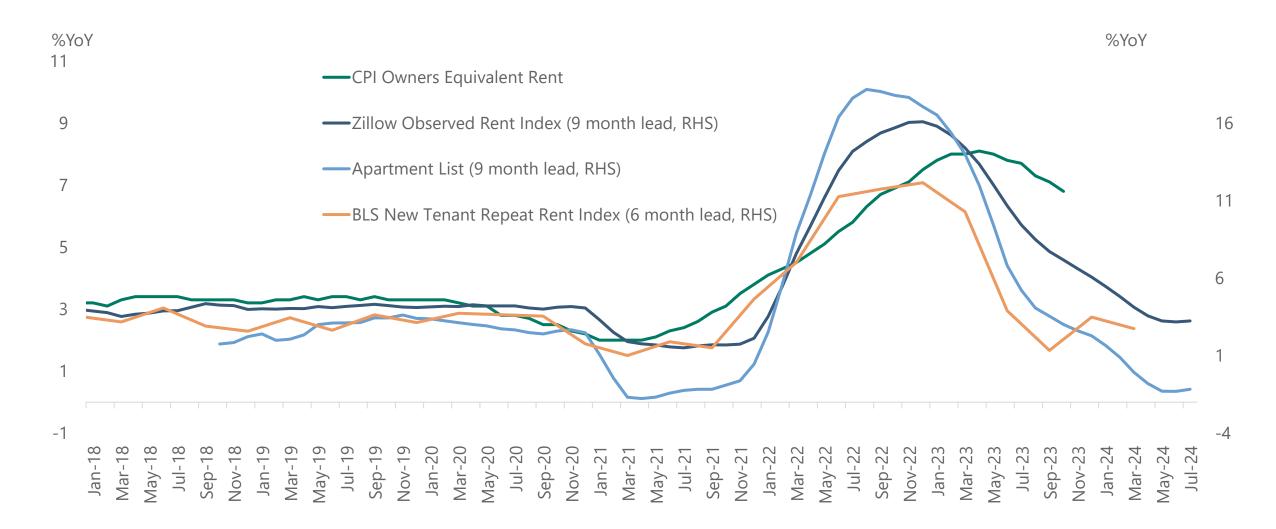
Outlook for spending on housing

Home price inflation rebounding



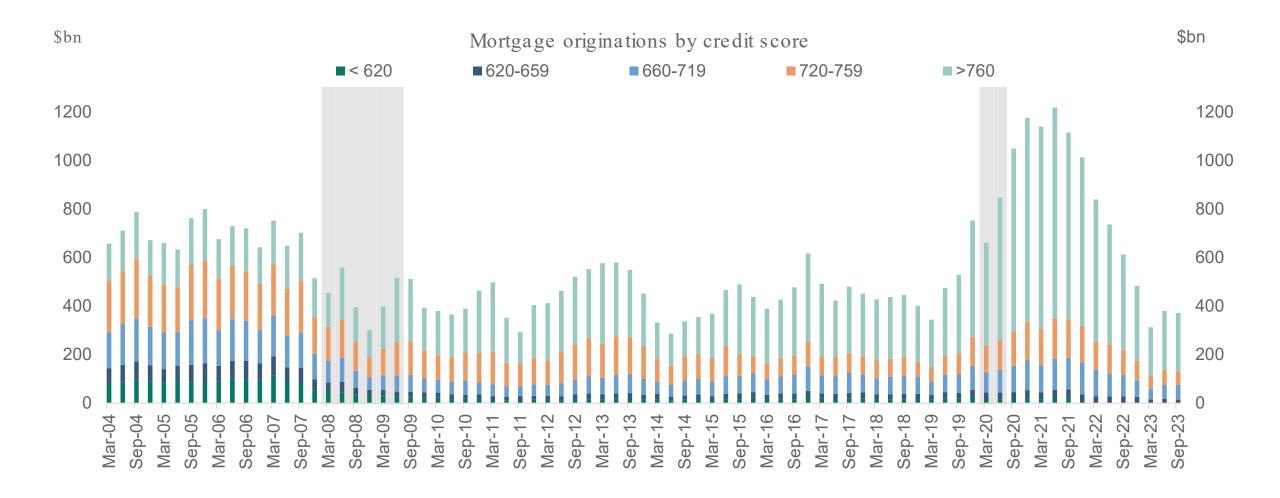
Source: Haver, Apollo Chief Economist

Housing inflation

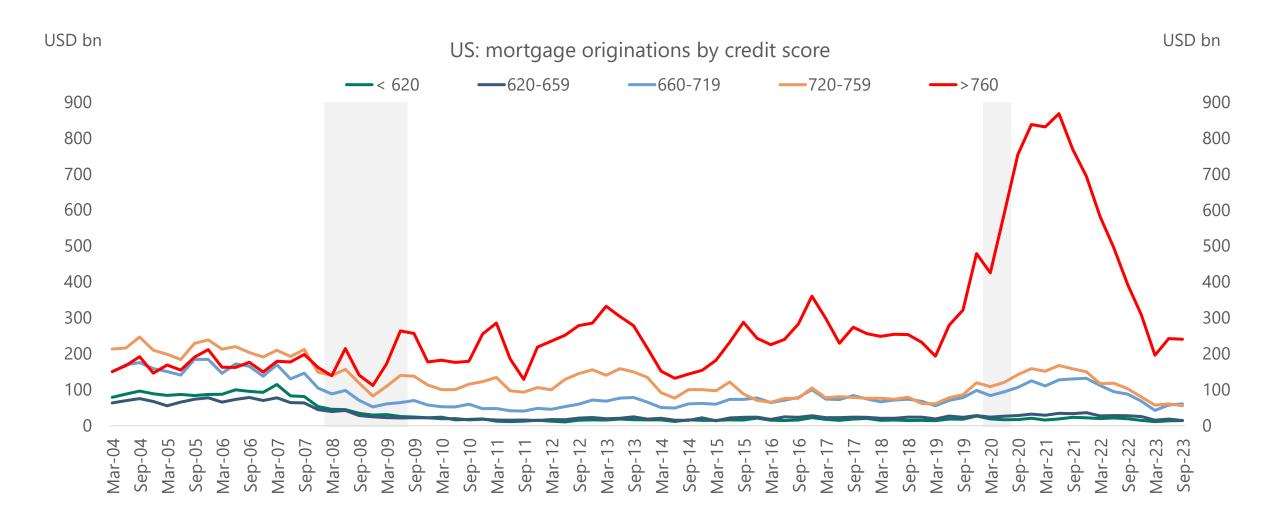


Source: Zillow, BLS, Haver Analytics, Apollo Chief Economist

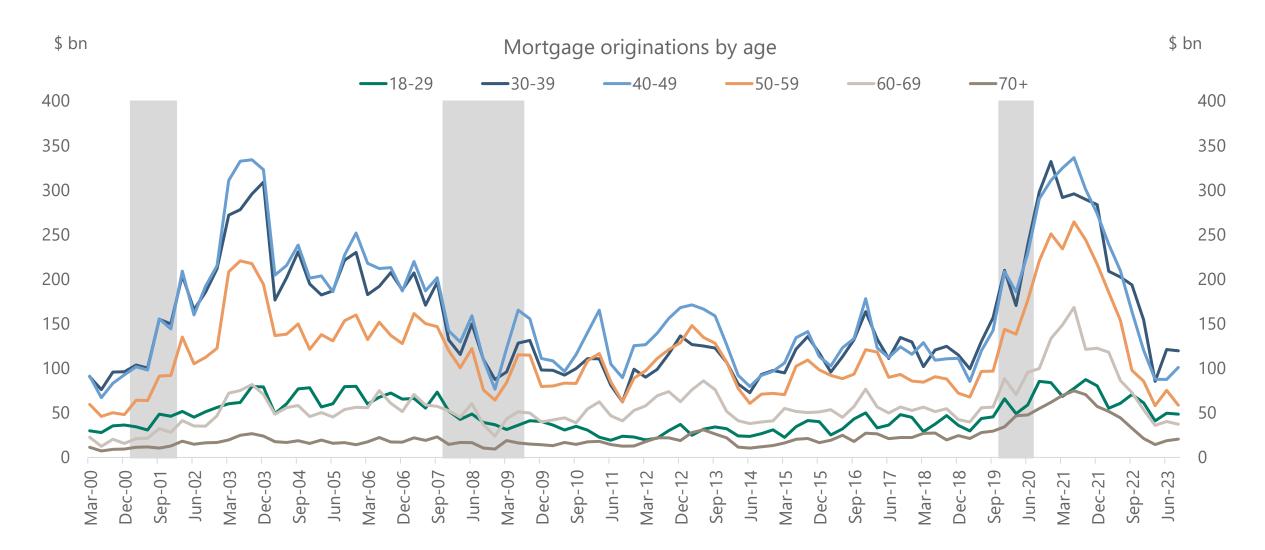
Purchase and refi activity during the pandemic driven by households with high credit scores



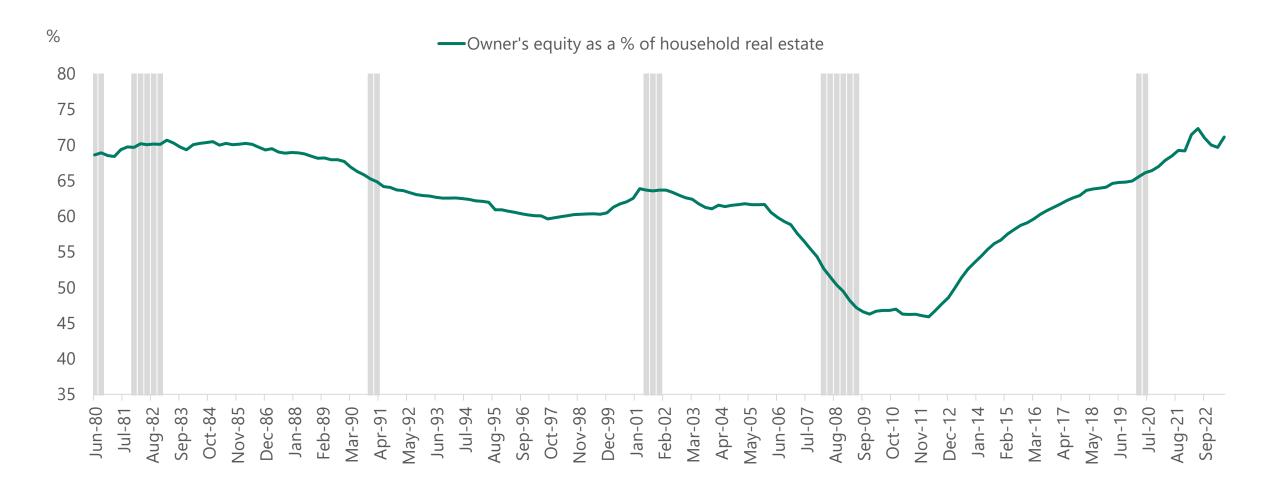
US mortgage credit originations, by credit score



Mortgage origination has normalized across age groups

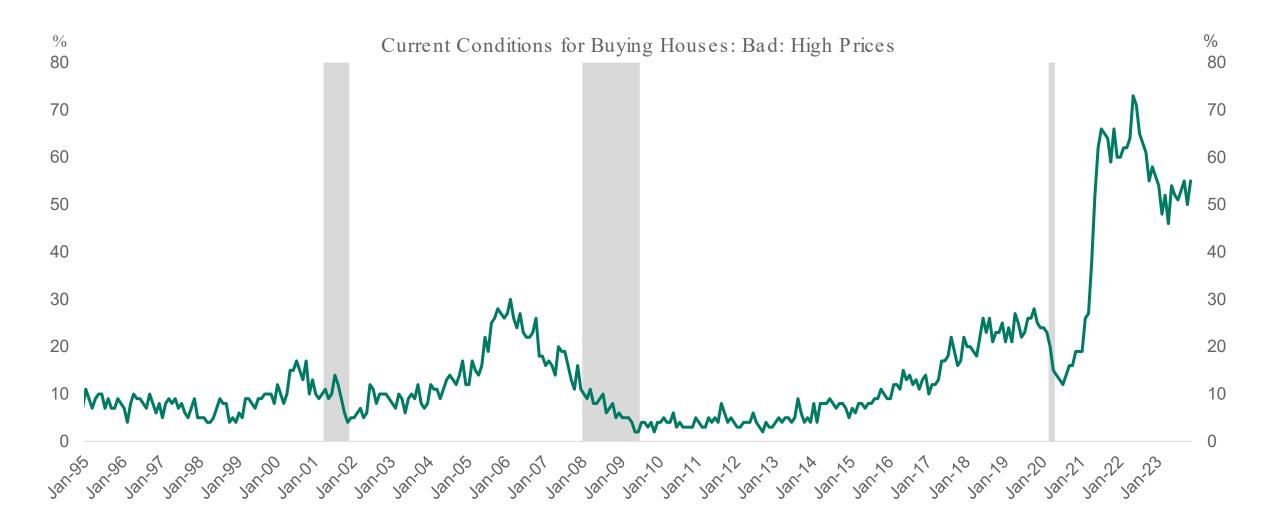


Households have less debt in their homes: Homeowner's equity near highest level in decades



Source: FRB, Haver Analytics, Apollo Chief Economist

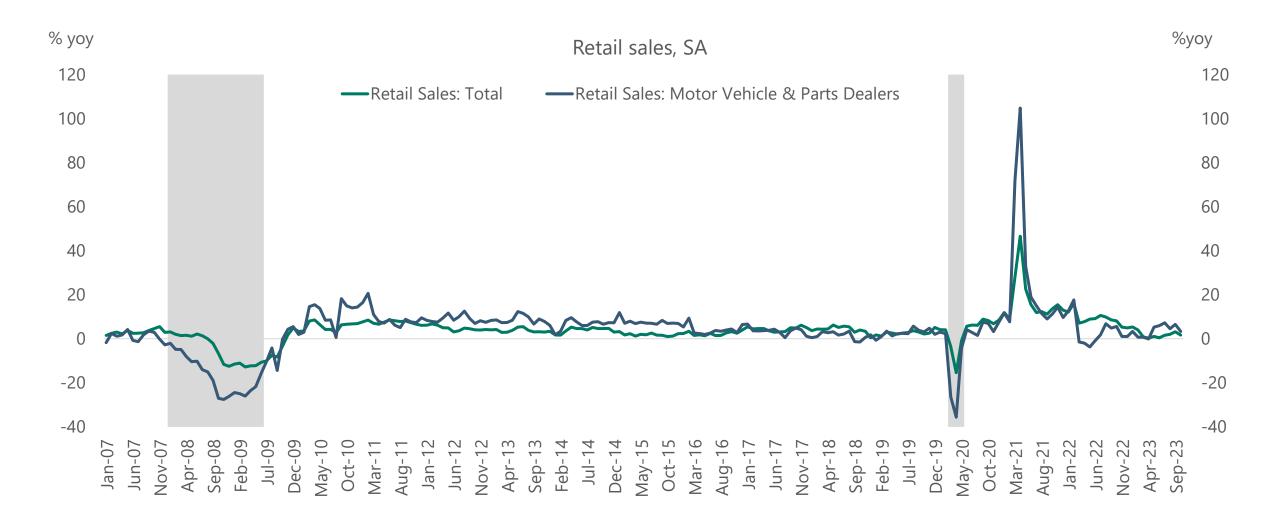
High house prices affecting consumer's buying sentiment negatively



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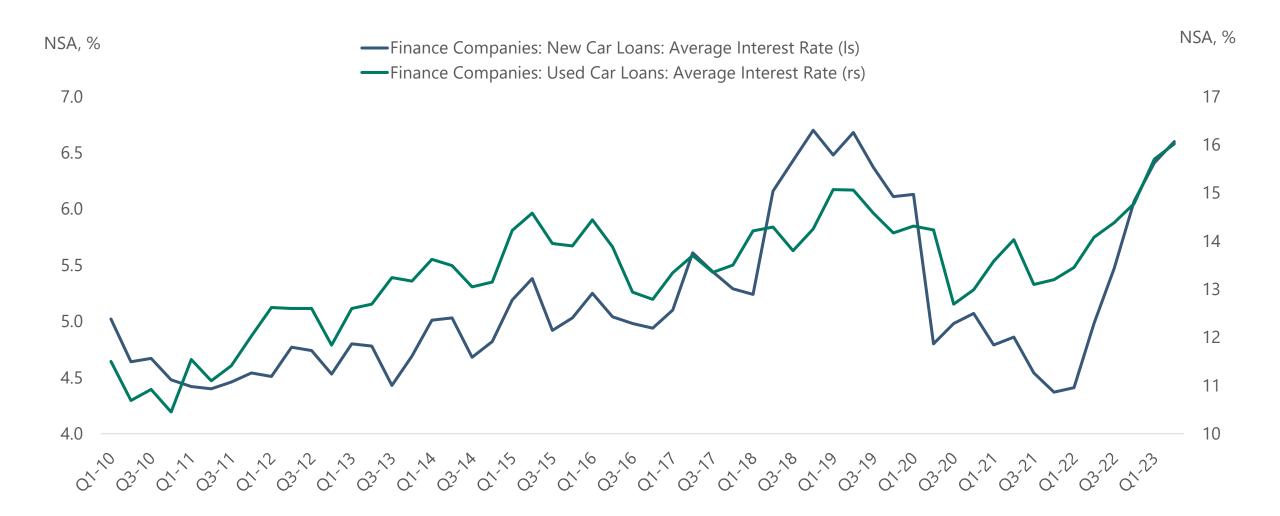
Outlook for spending on cars

Motor vehicle sales, from retail sales data



Source: Census Bureau, Apollo Chief Economist 50

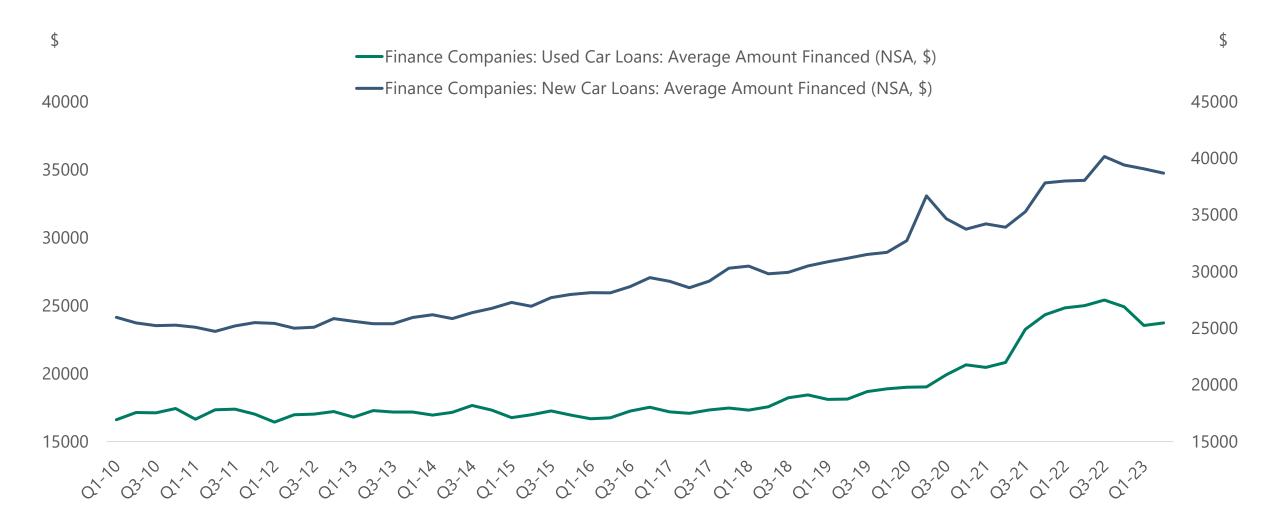
Interest rates on auto loans have increased



Source: FRB, Haver, Apollo Chief Economist

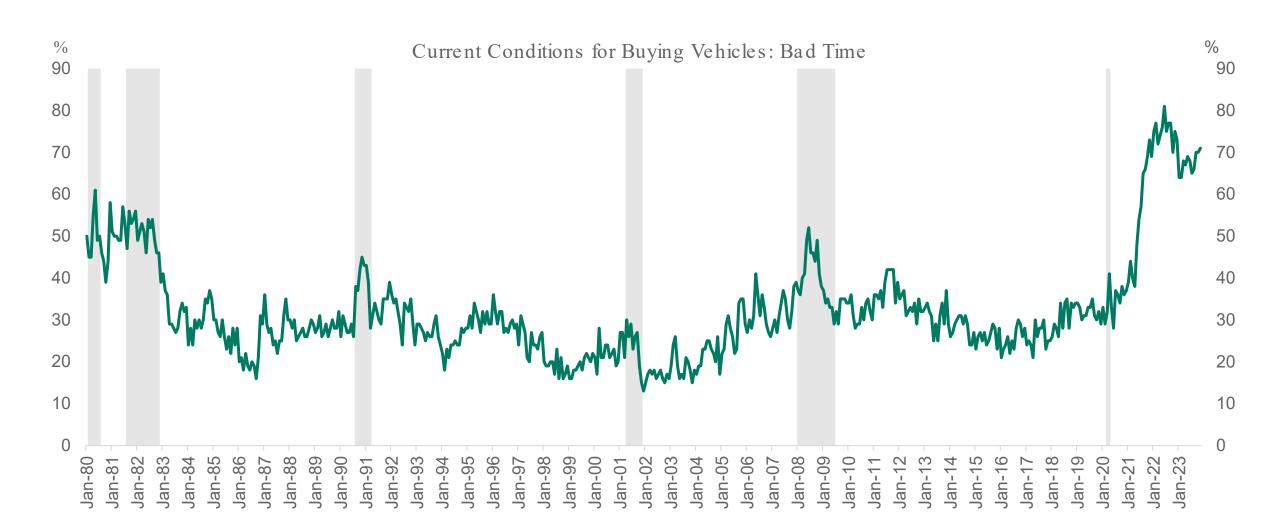
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Average amount financed for new and used car loans

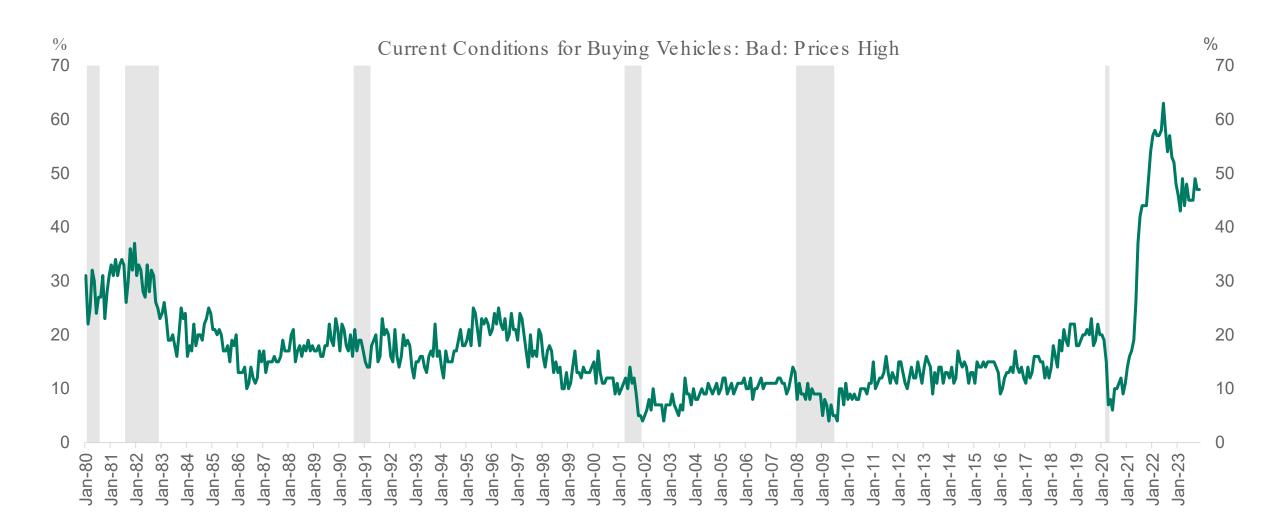


Source: FRB, Haver, Apollo Chief Economist

Sentiment deteriorating among car buyers



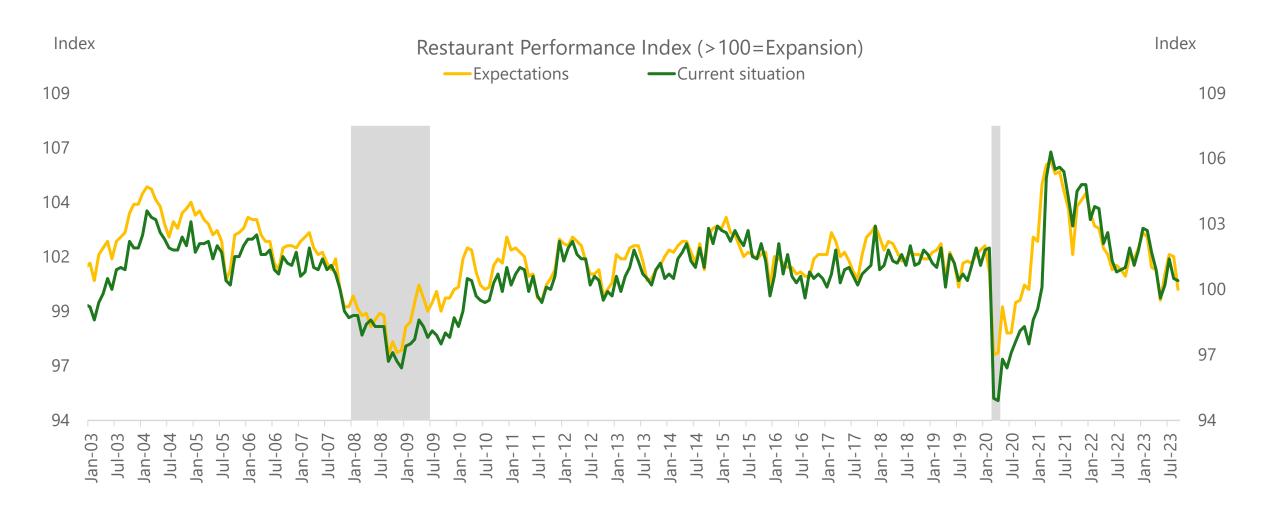
Inflation impacting auto demand



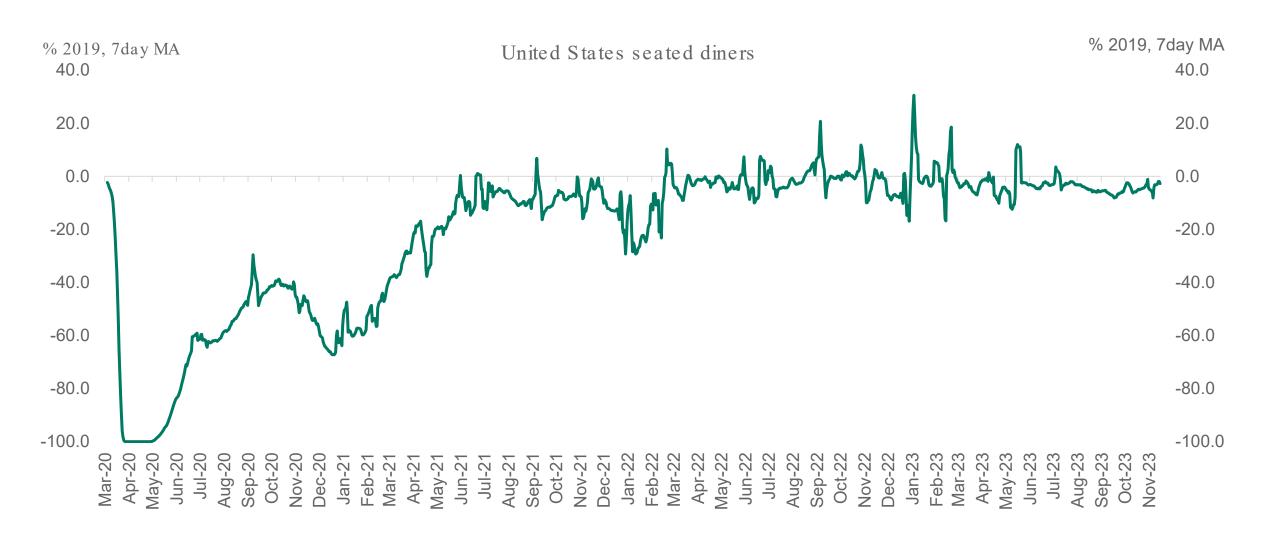
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Outlook for spending on restaurants

Restaurant demand declining

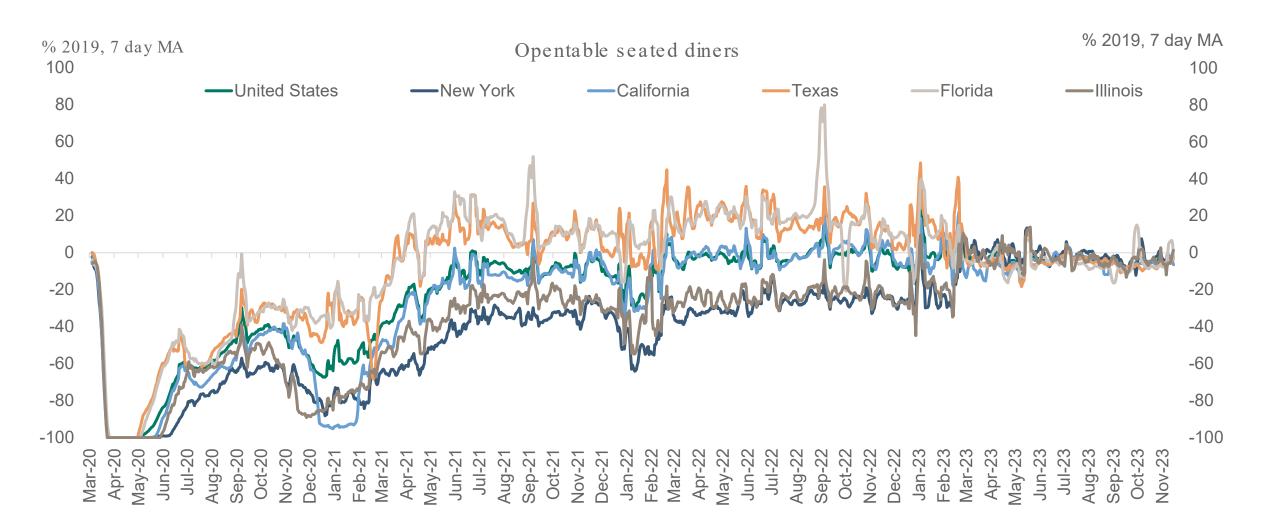


Daily data for restaurant bookings



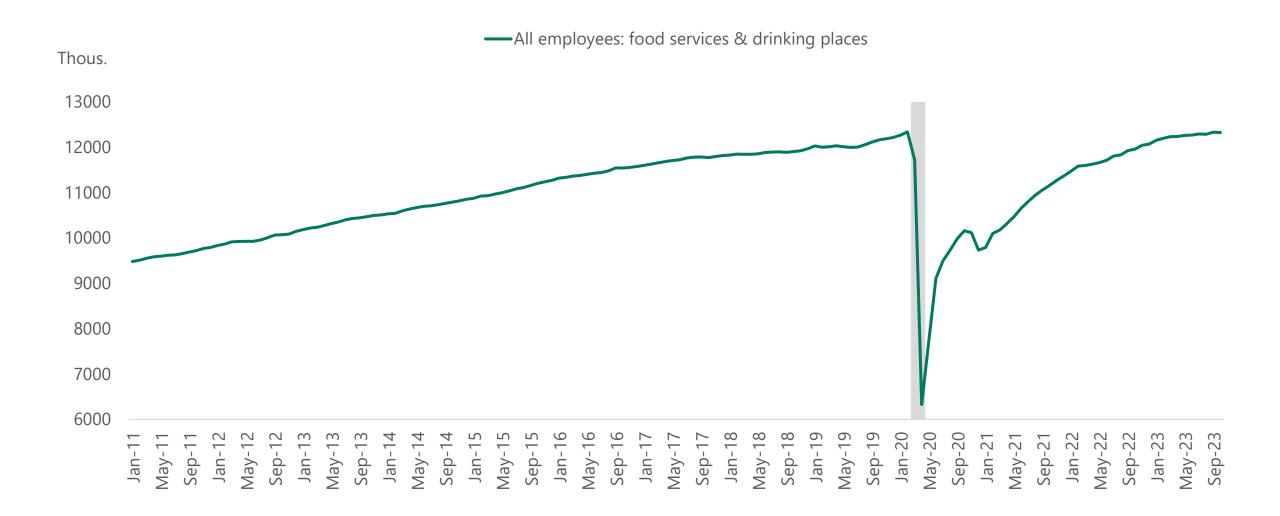
Source: OpenTable, Apollo Chief Economist

Daily data for restaurant bookings, selected cities



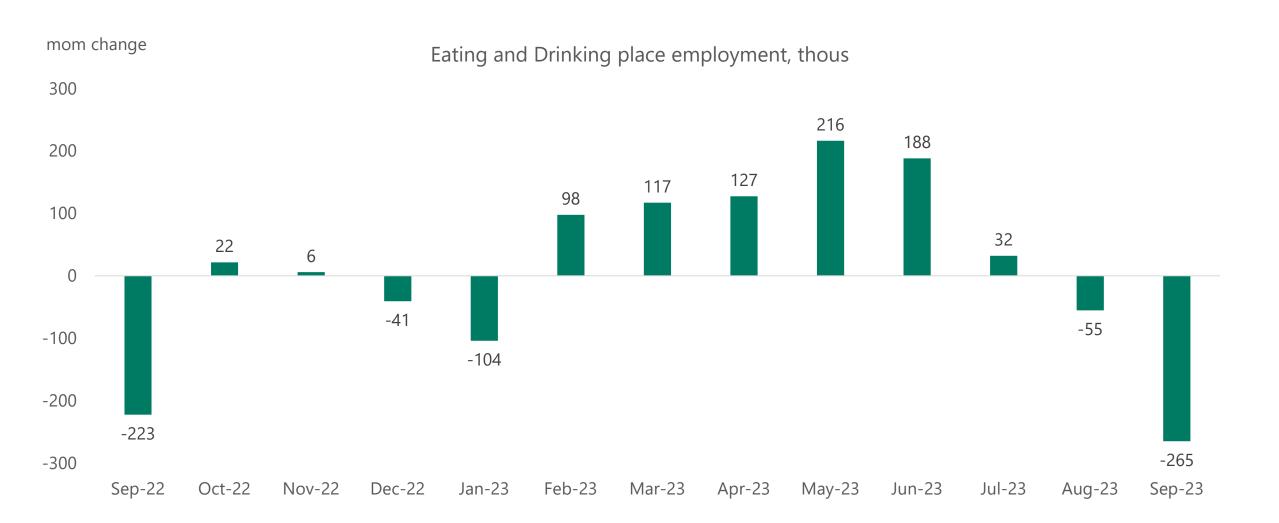
Source: OpenTable, Apollo Chief Economist 58

Employment in restaurants and bars at pre-pandemic levels



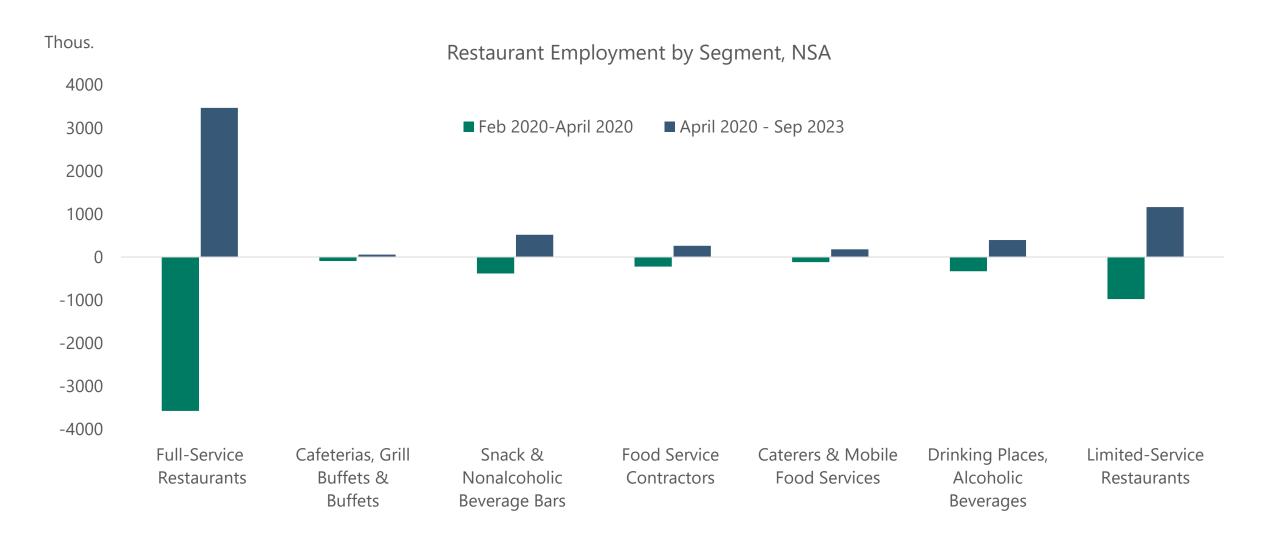
Source: BLS, Haver, Apollo Chief Economist

Employment growth for Eating and Drinking places



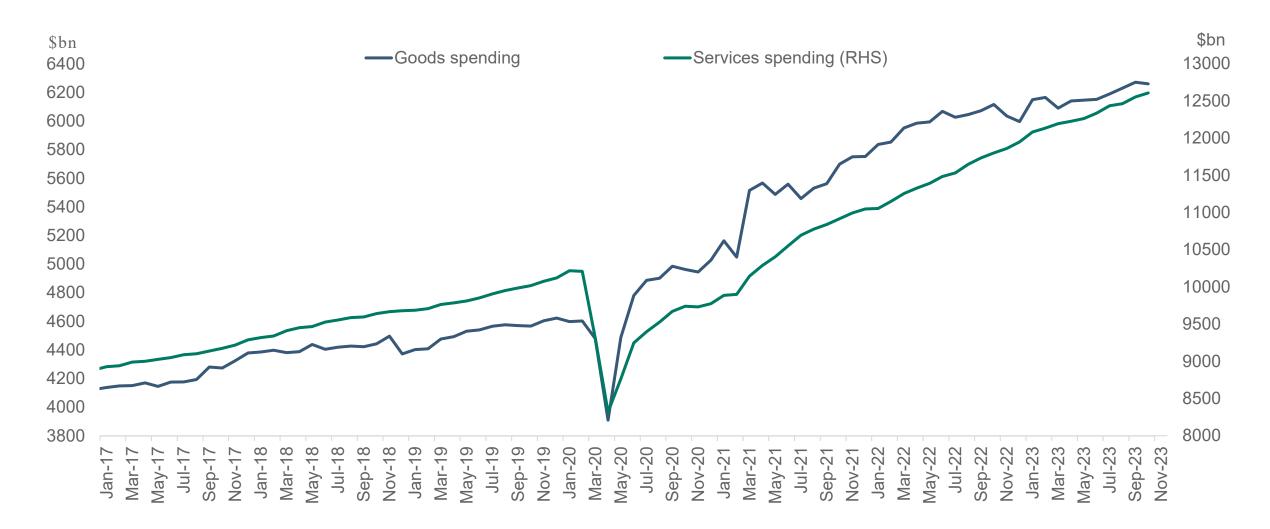
Source: BLS, Haver, Apollo Chief Economist

Growth in restaurant employment, by type of restaurant



Source: BLS, Haver, Apollo Chief Economist

Service sector spending significantly above pre-pandemic levels



Source: BEA, Haver, Apollo Chief Economist

Stock price index for restaurants and bars

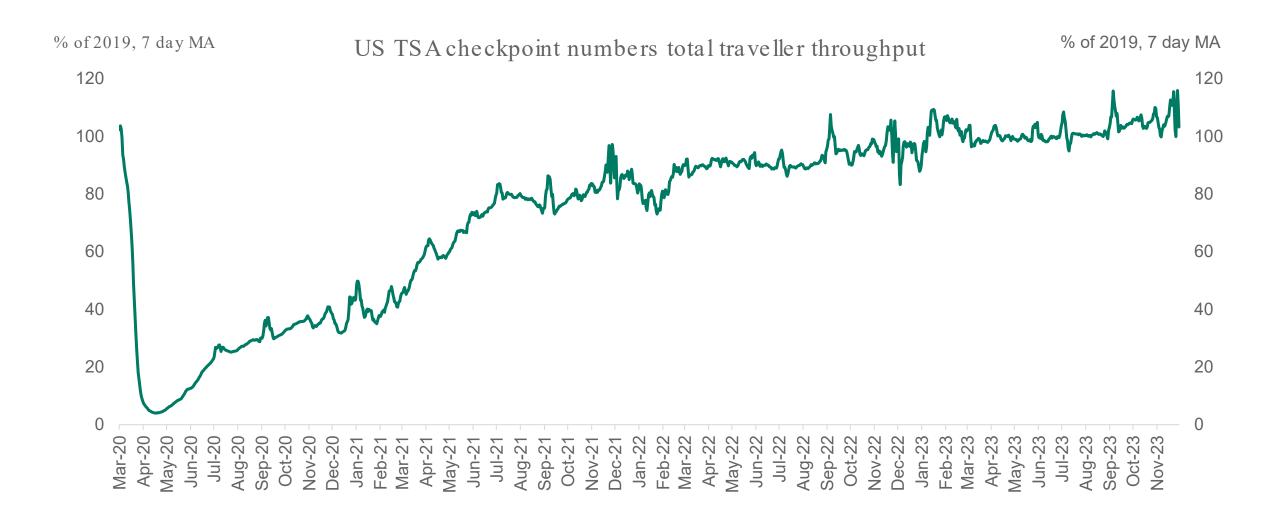


Source: Bloomberg, Apollo Chief Economist 63

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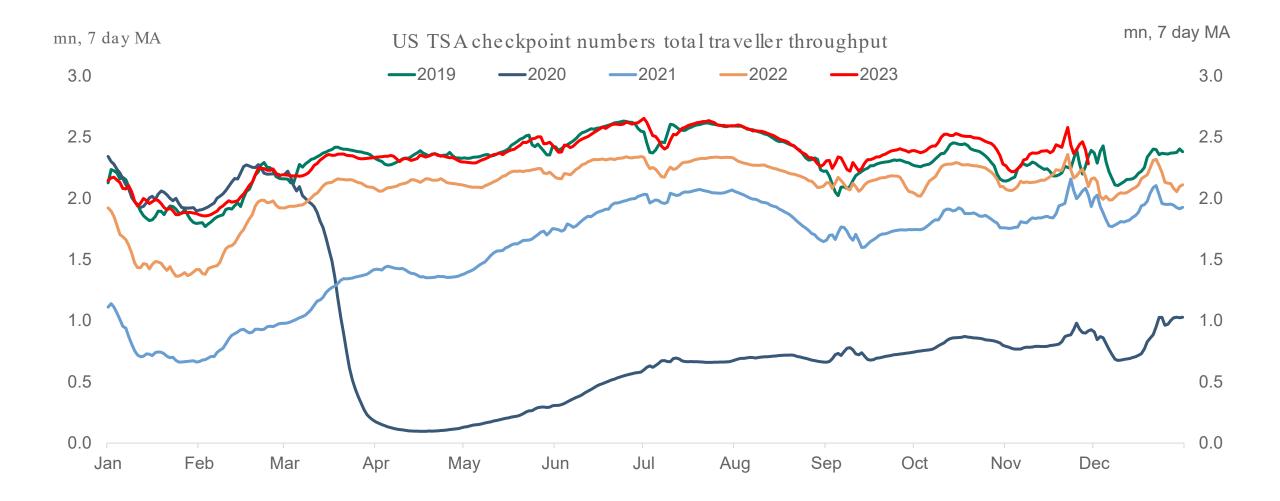
Outlook for spending on travel

TSA: US air travel still strong



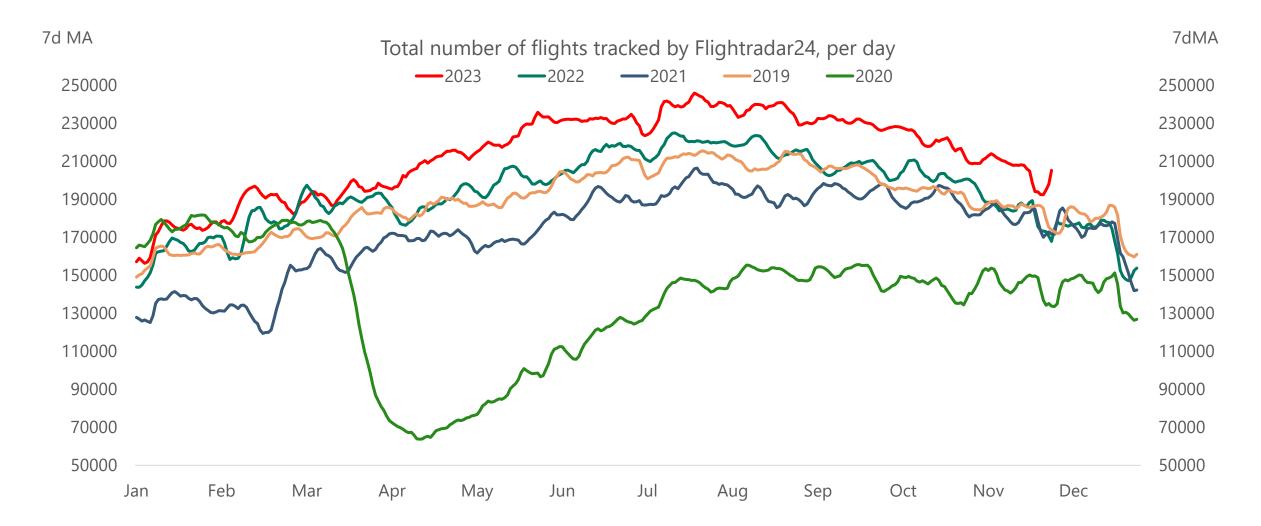
Source: TSA, Apollo Chief Economist 65

US air travel still strong



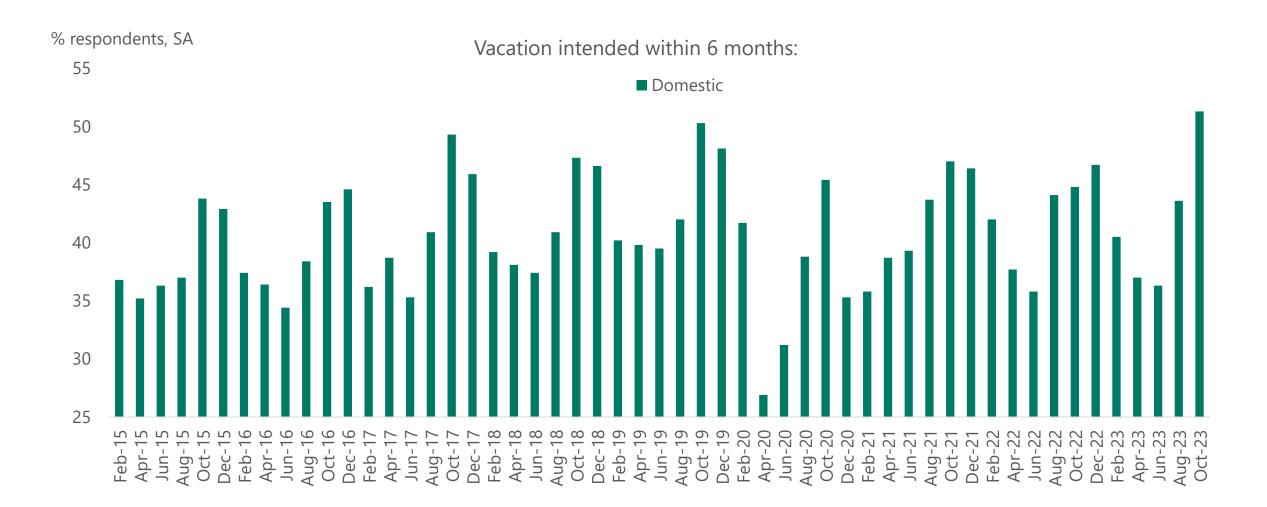
Source: TSA, Bloomberg, Apollo Chief Economist

Global air traffic still high

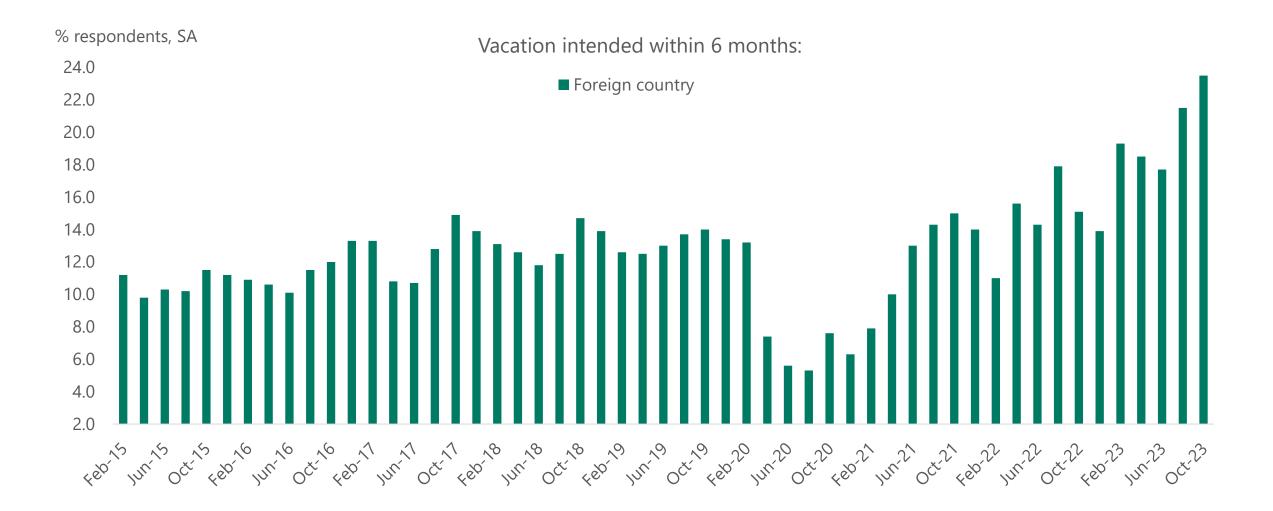


Source: Flightradar24.com, Apollo Chief Economist

Vacation intentions: Within the US

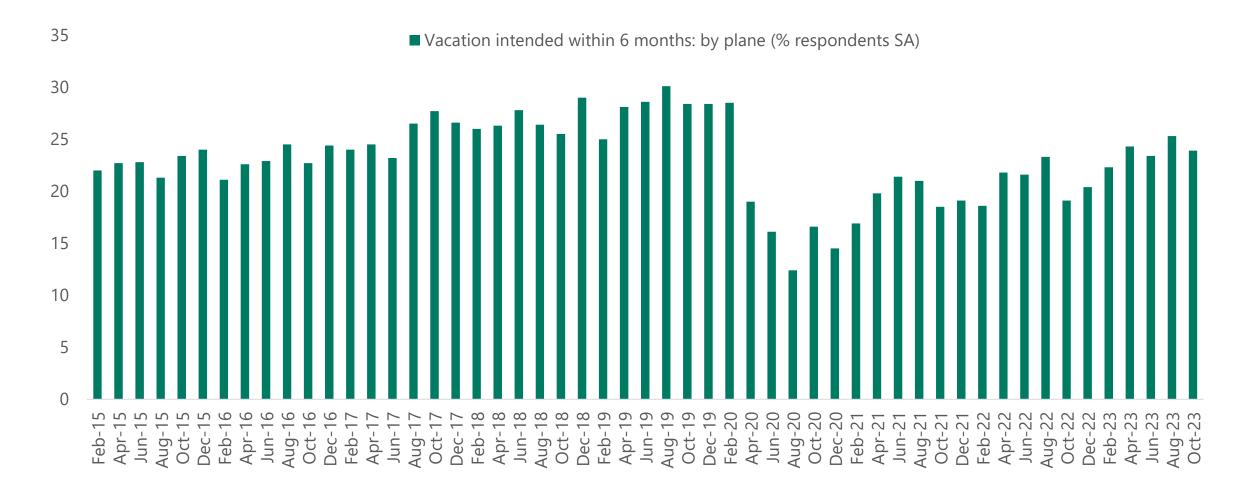


Vacation intentions to a foreign country



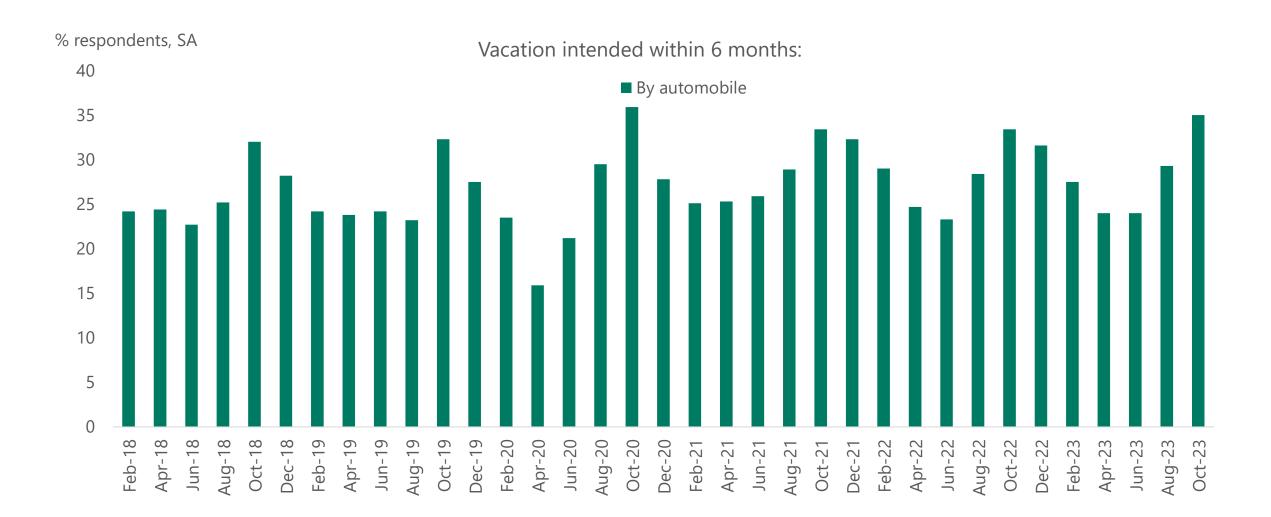
Source: Conference Board, Apollo Chief Economist 69

Vacation intentions: By plane



Source: Conference Board, Apollo Chief Economist

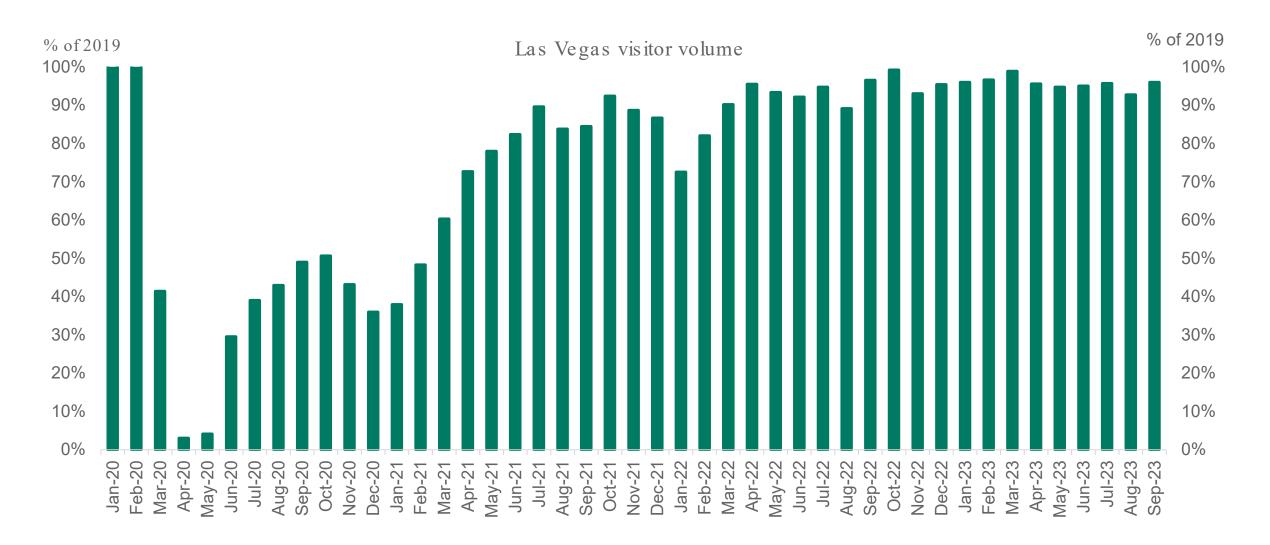
Vacation intentions: By car



Air travel during holidays, comparing 2023 with previous years



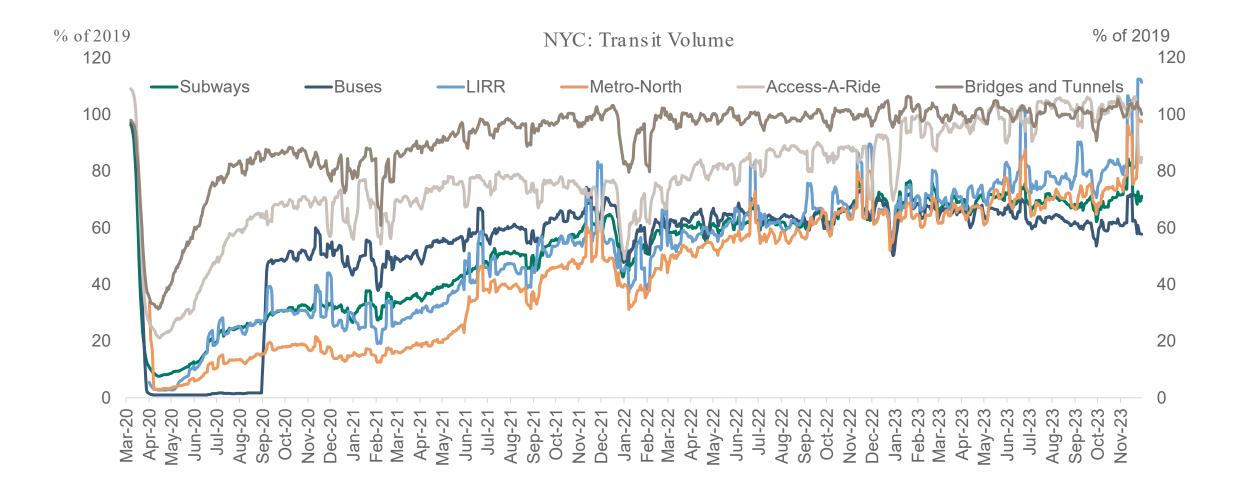
Las Vegas visitor volumes



Source: Las Vegas Convention and Visitors Authority, Apollo Chief Economist

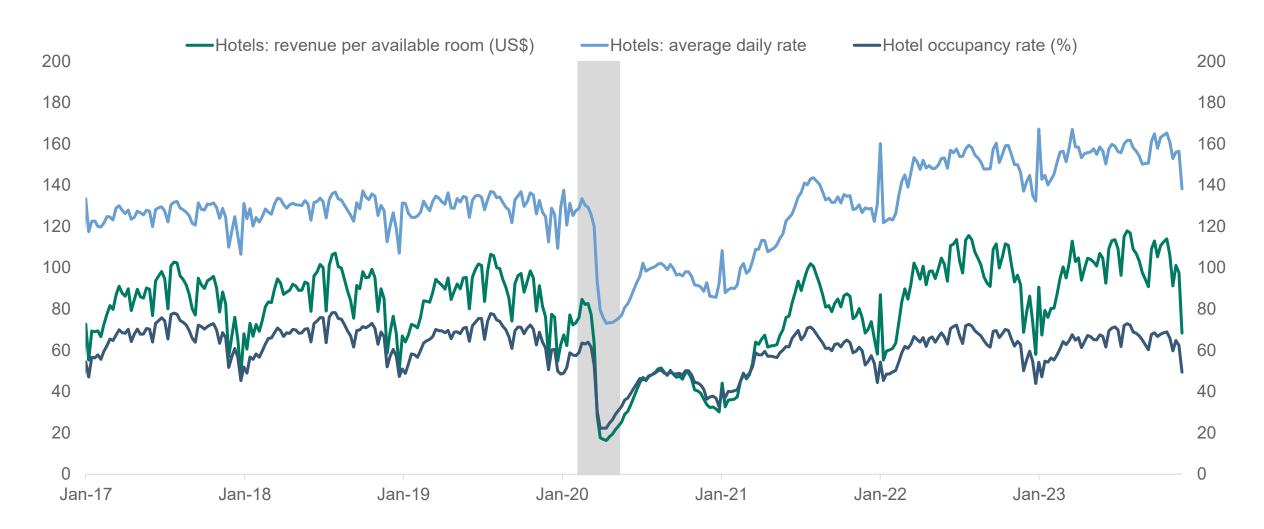
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NYC mobility indicators

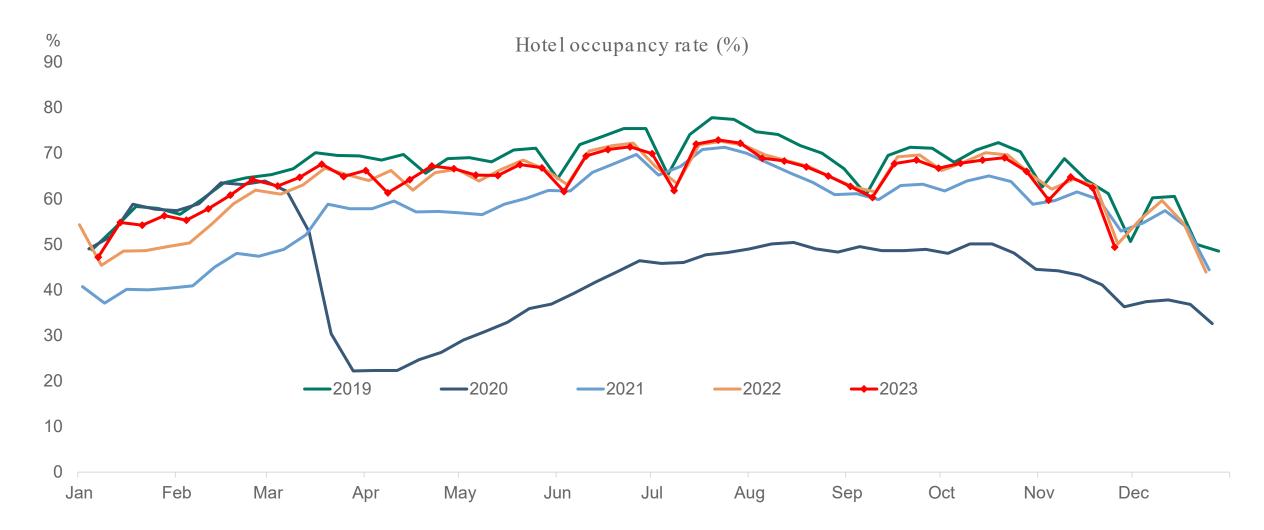


Source: MTA, Apollo Chief Economist

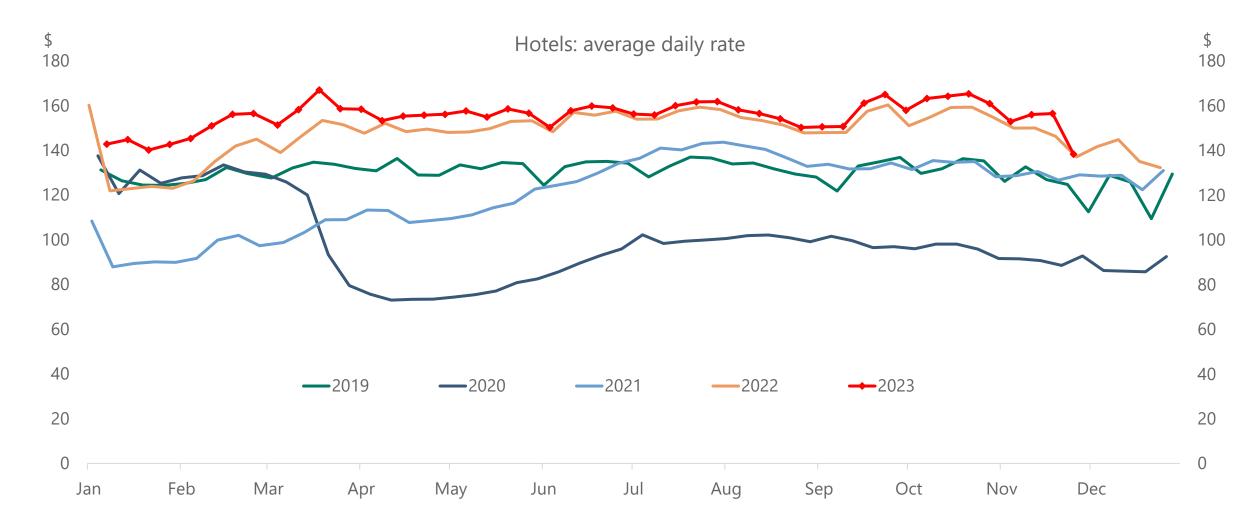
Weekly data for hotel demand has been softening



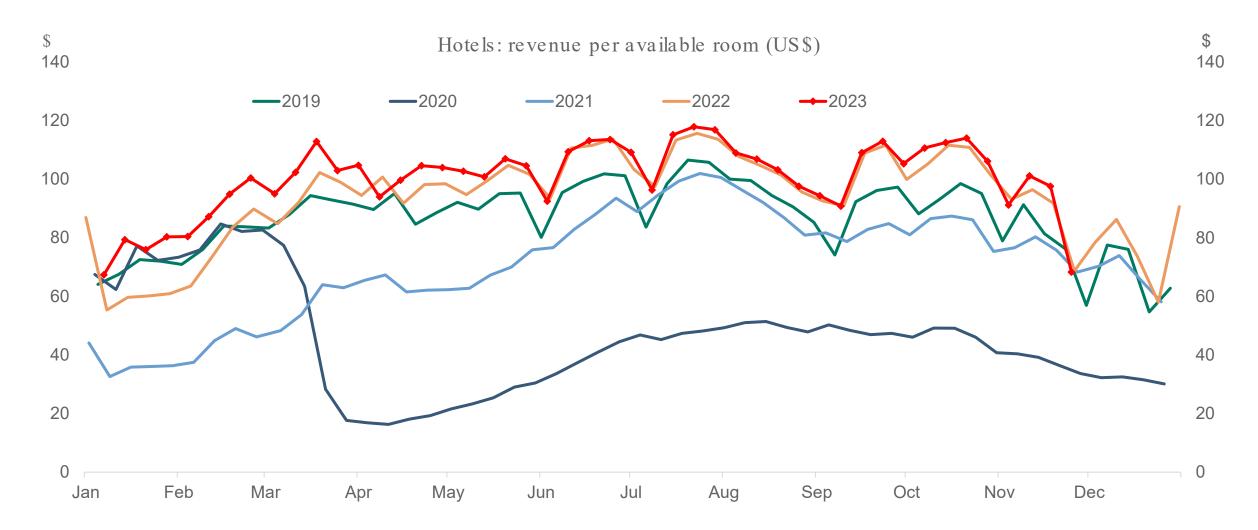
Weekly data for hotel demand



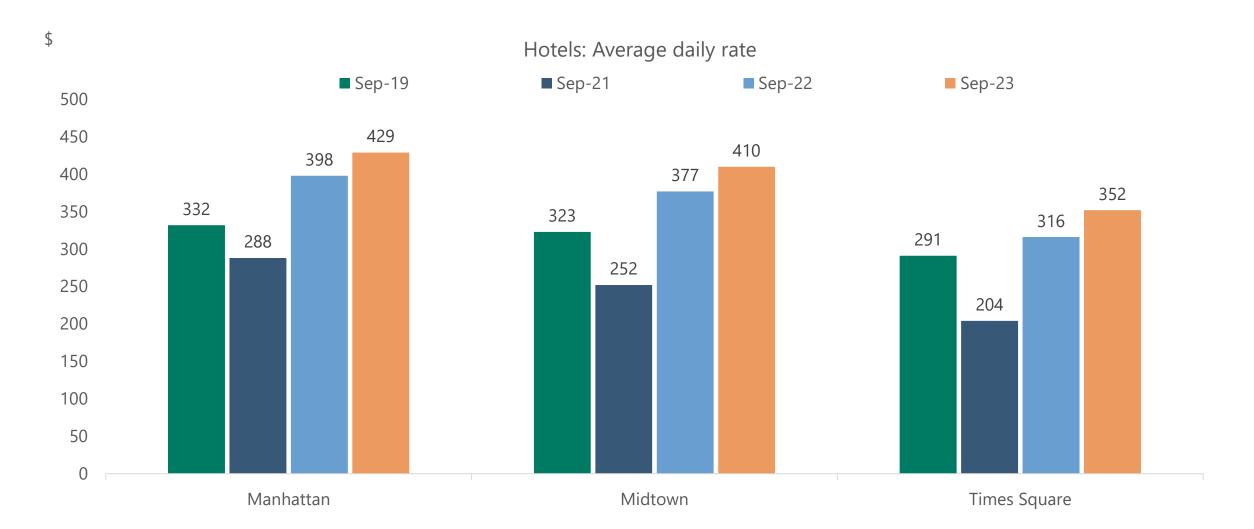
Weekly data for hotel demand



Weekly data for hotel demand



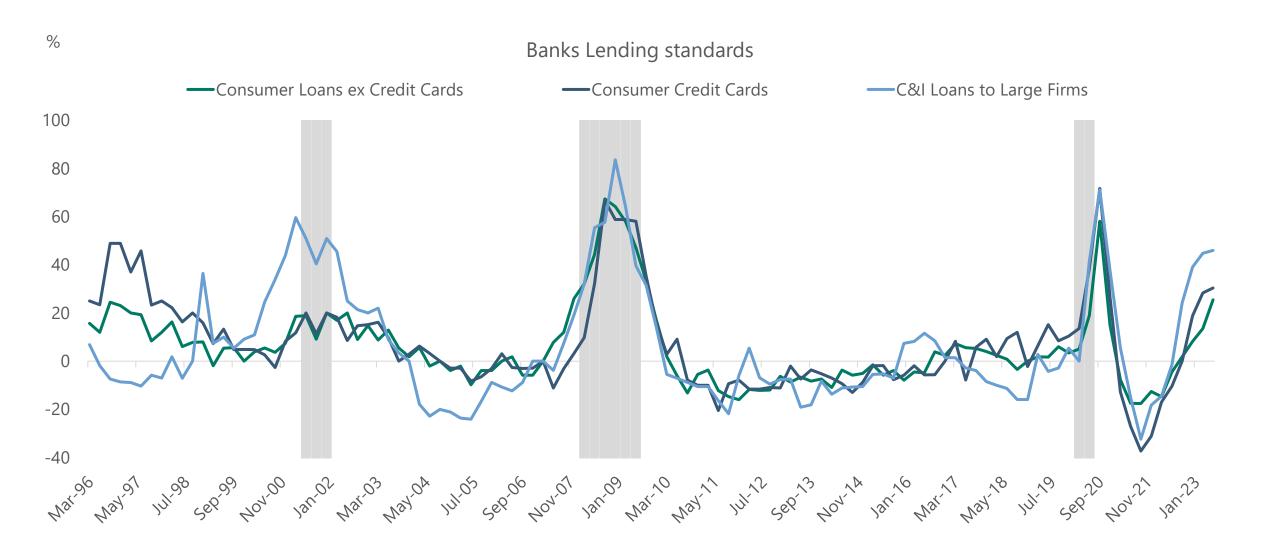
New York hotel prices are now significantly above pre-pandemic levels



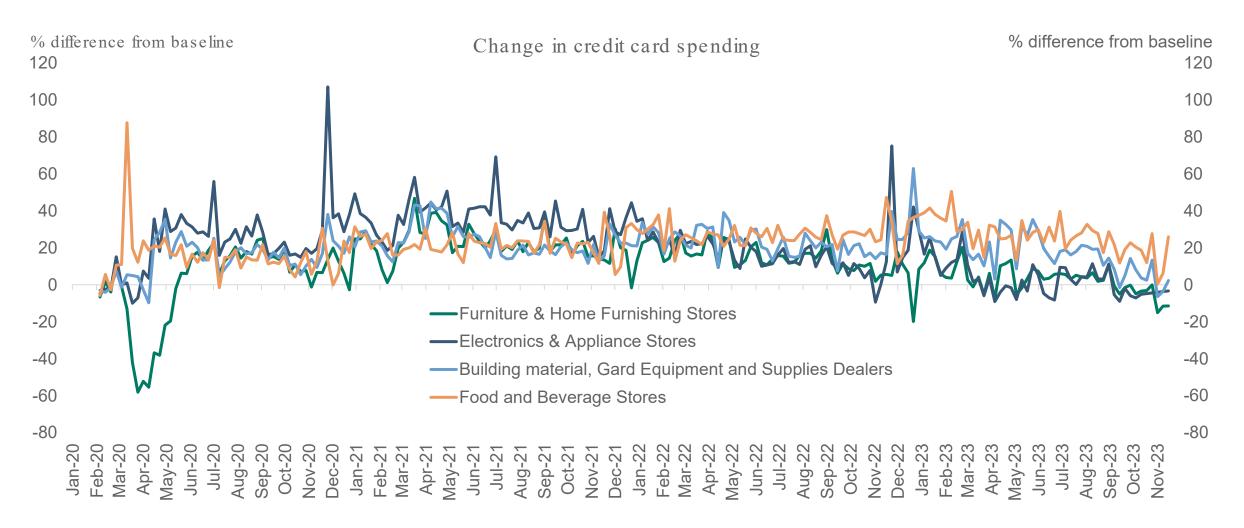
APOLLO

Outlook for spending on other consumer goods

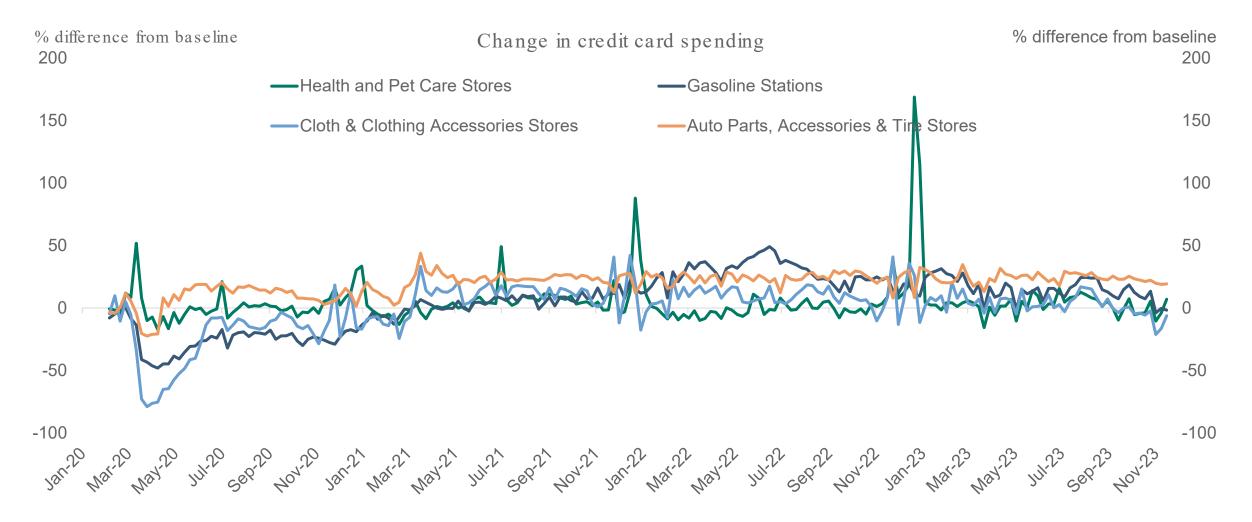
Tightening lending standards will weigh on consumer spending



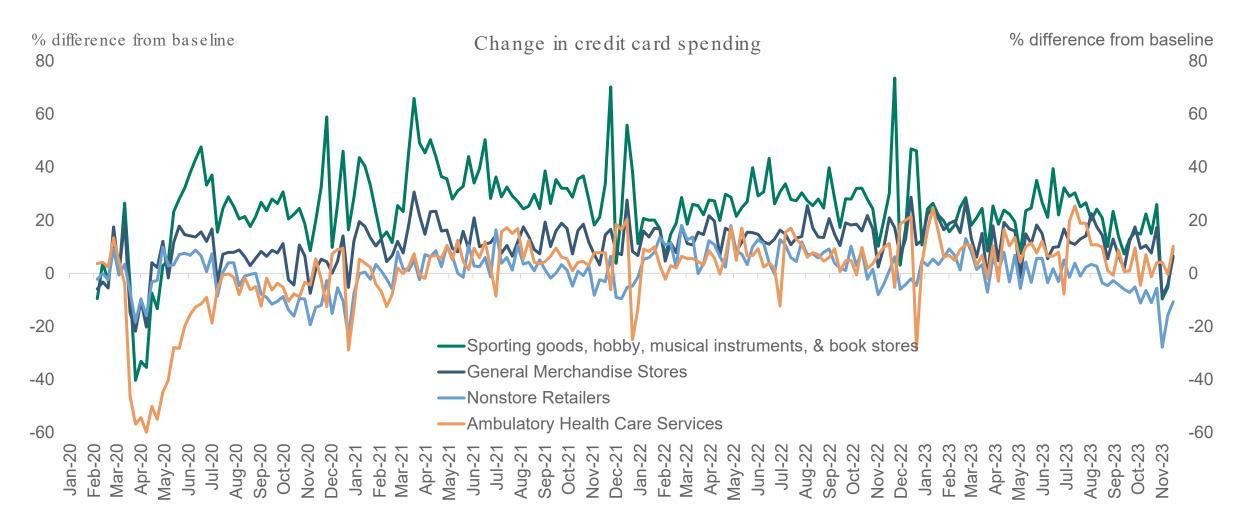
US consumer still ok, some weakness starting to emerge



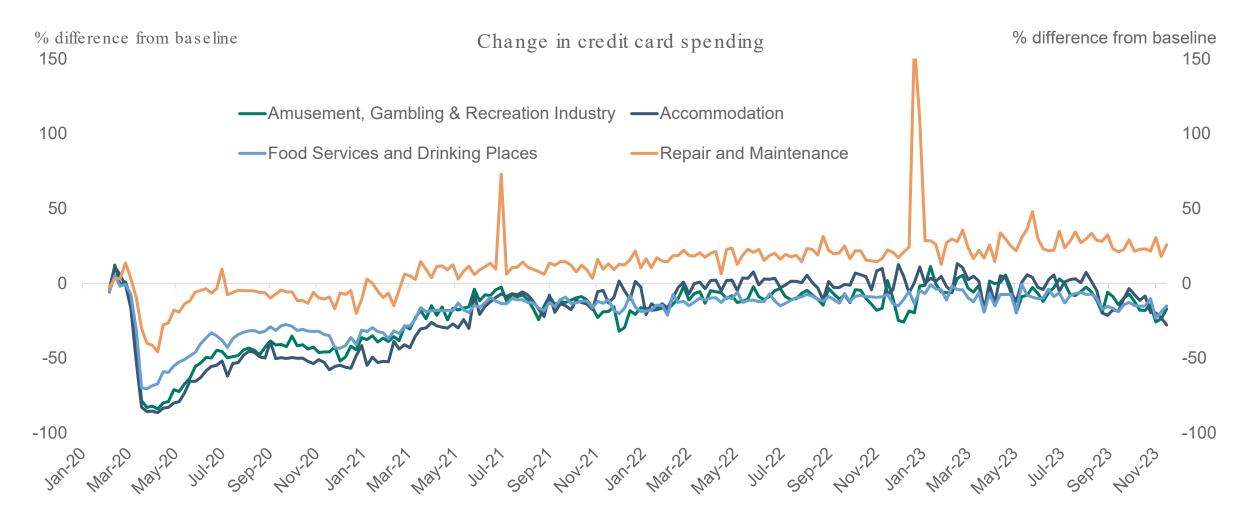
US consumer credit card spending



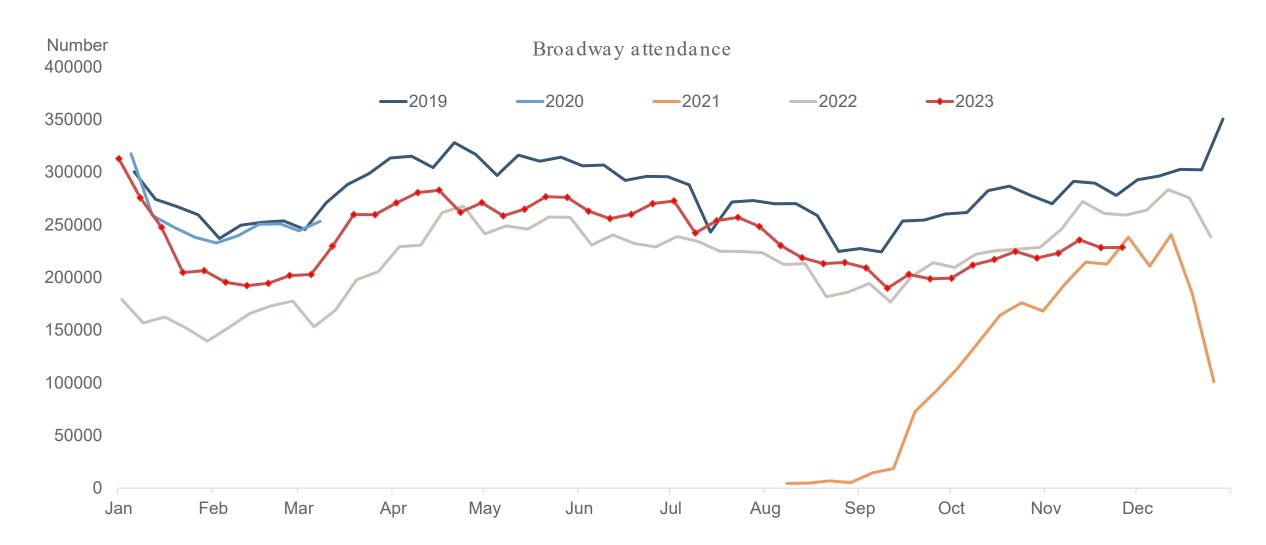
US consumer credit card spending



US consumer credit card spending

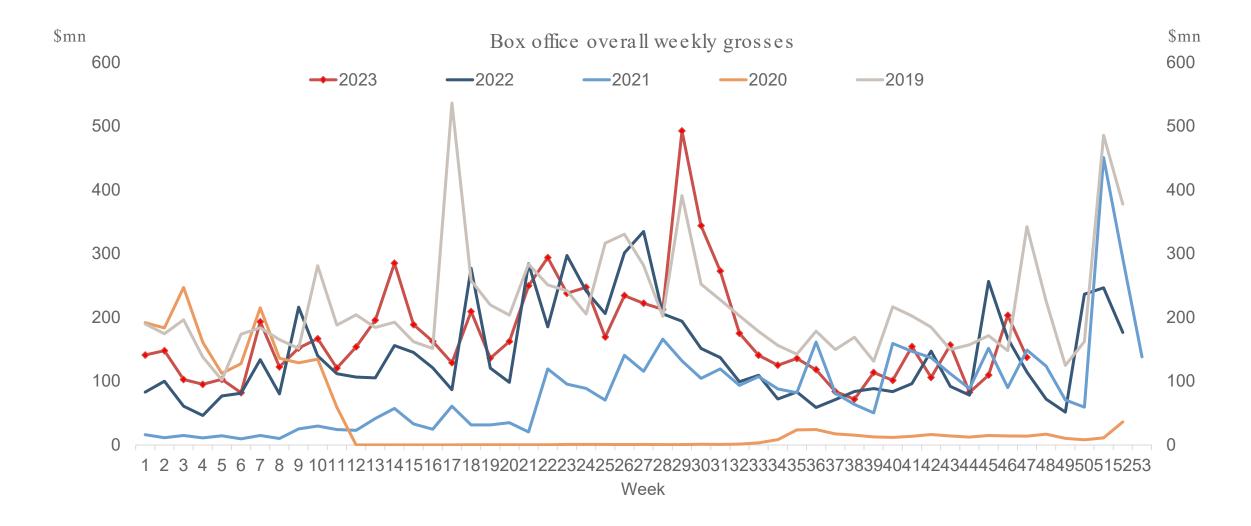


Some signs of slowdown in Broadway show attendance



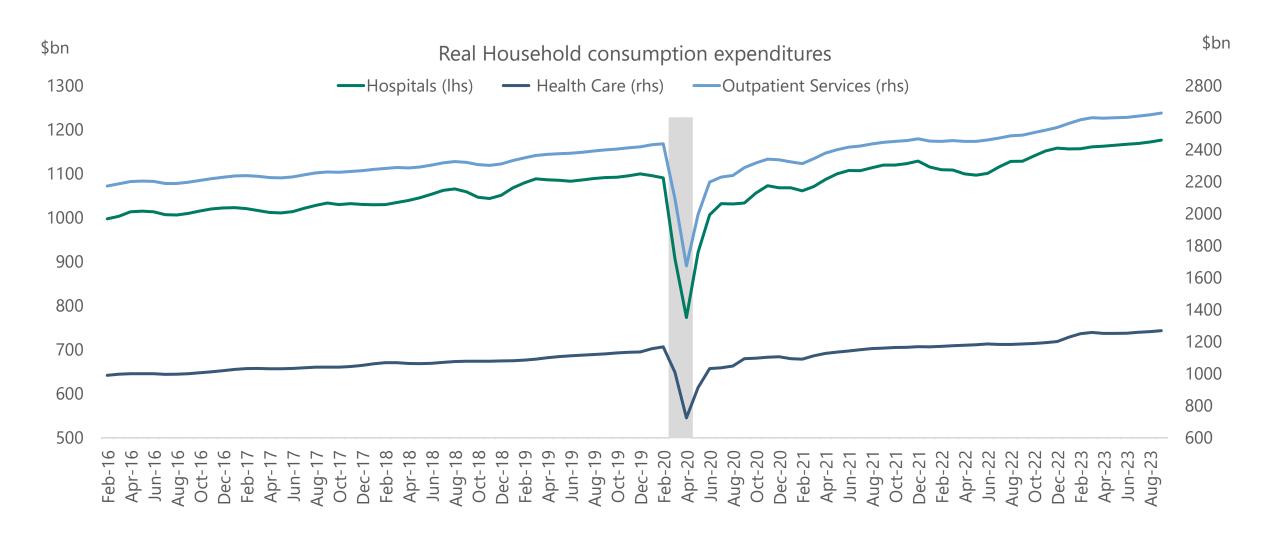
Source: Internet Broadway Database, Apollo Chief Economist

Movie theatre visits in line with past years



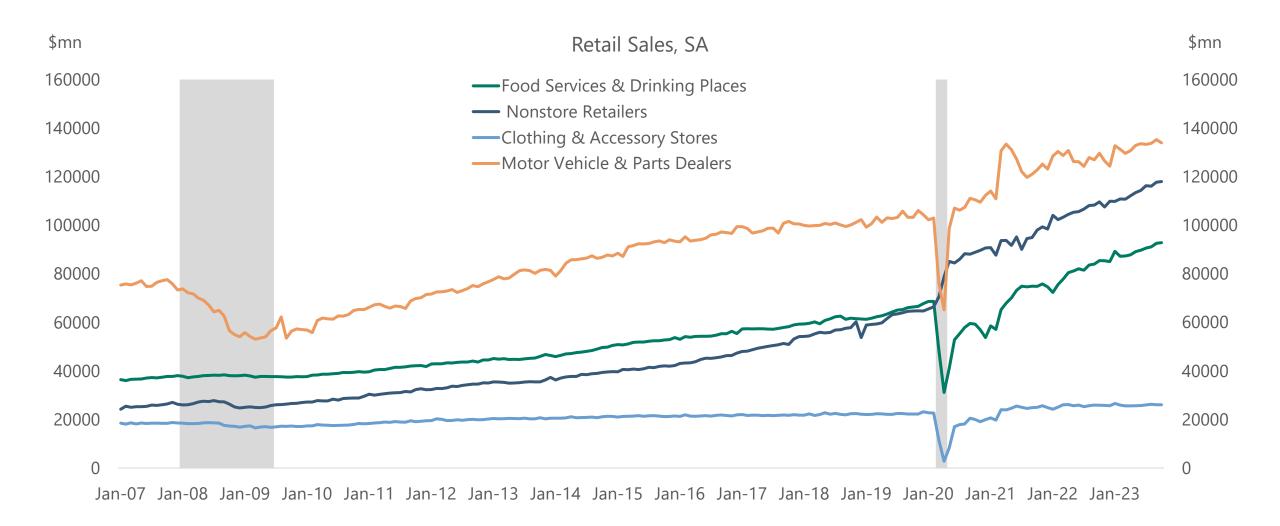
Source: Boxofficemojo.com, Apollo Chief Economist

Health care spending at pre-pandemic trend

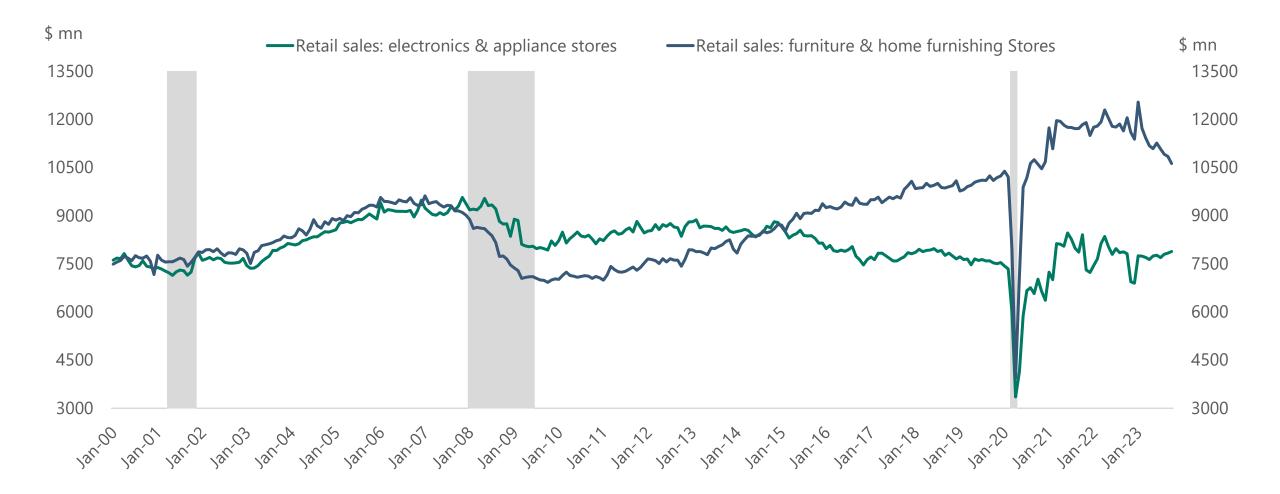


Source: BEA, Haver, Apollo Chief Economist

Retail sales across different spending categories



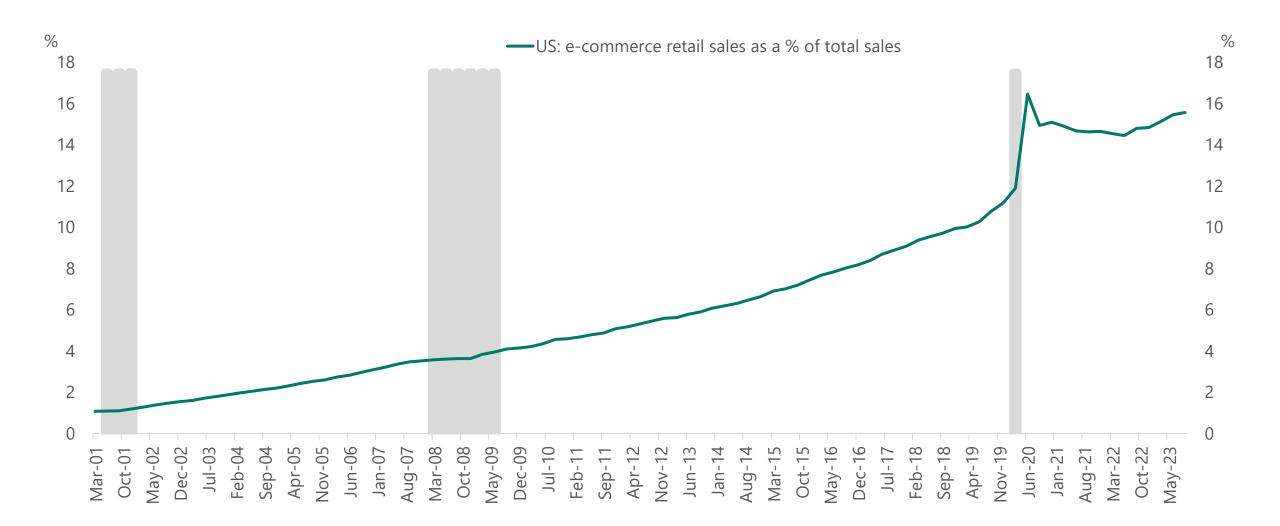
Some slowdown in sales of furniture, likely because this requires financing



E-commerce retail sales stabilizing



Online shopping as a share of total consumer spending





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Torsten Slok joined Apollo in August 2020 as Chief Economist and he leads Apollo's macroeconomic and market analysis across the platform.

Prior to joining, Mr. Slok worked for 15 years as Chief Economist at Deutsche Bank where his team was top ranked in the annual Institutional Investor survey for a decade, including #1 in 2019. Prior to joining Deutsche Bank Mr. Slok worked at the IMF in Washington, DC and at the OECD in Paris.

Mr. Slok has a Ph.D in Economics and has studied at the University of Copenhagen and Princeton University.