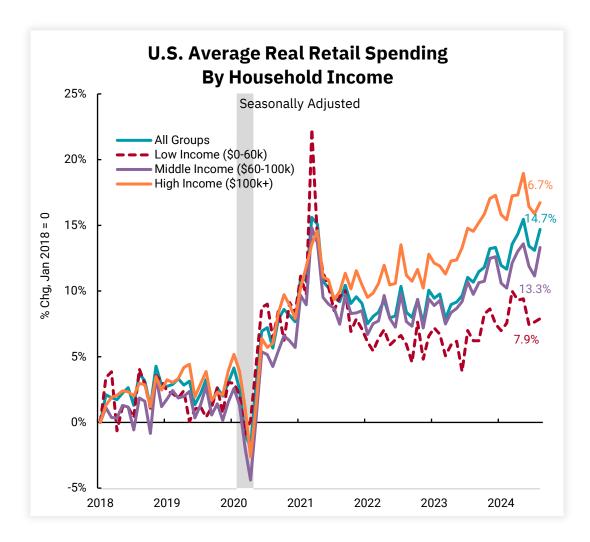
INVESTMENT MANAGEMENT

Weekly market update

Chart of the week (Oct. 25, 2024)





The consumer is king when it comes to the domestic economy, so investors watch U.S. consumer spending very closely. Spending from the highest earners is particularly important for the overall economy, as this group has the most financial resources of all consumers. With this in mind, this week's chart shows the average growth of inflation-adjusted retail spending in the U.S. from 2018 onward, separated into low-, middle- and high-income households.

During the Covid era, significant stimulus measures were passed to support the economy as the country faced lockdowns and a severe reduction in economic activity. Due to the influx of stimulus funds, many lower-income consumers had more spending power than they did prepandemic. Many of these households did not hesitate in putting those dollars to work in the economy. The dotted red line in the graph, representing lower-income consumers, peaked in early 2021 at over 20%. Spending growth for low-income households then troughed in mid-2023 and is currently showing a meager 7.9% growth rate since 2018.

On the other hand, spending from upper-income consumers has risen relatively steadily since 2018. Their inflation-adjusted retail spending grew by 16.7% over the same period, more than double the growth rate for low-income households. Essentially, wealthier Americans continue to drive the U.S. economy forward, while the temporary high in spending from Covid-era stimulus was just not able to last for lower-income households.

Wealthier U.S. households have the means to keep U.S. economic growth on stable footing. Absent an external shock to the economy or a significant downturn in the labor market, this trend seems likely to continue for now. The first look at third-quarter gross domestic product (GDP) will be released on Wednesday, where expectations are for over 3% growth. While we would like to see lower-income households be able to keep a better pace, there is enough spending from higher-income households to keep the economy afloat.

INVESTMENT MANAGEMENT

Weekly market update



Commentary (Oct. 25, 2024)

Domestic Equities

- U.S. equities were generally negative for the week. Growth stocks saw gains, but value and small-cap stocks fell. Investors are exercising caution ahead of the election, despite relatively positive economic data and earnings reports.
- Macroeconomic data continues to show a "Goldilocks" narrative. Jobless claims declined, while PMI surveys remain solid with little change from last month. New home sales rose higher than expected.
- Earnings reports have been strong so far. 90% of financials have reported better-than-expected earnings, with regional banks in particular showing strength. Tesla's report was much better than expected, lifting the stock over 20% in one day. This coming week is the busiest in earnings season, with most of the "Magnificent 7" reporting.

Bonds

- U.S. Treasury yields continued to move higher on election uncertainty but finished the week off of the highs due to softer employment data.
 Volatility across the Treasury has also been rising, with the ICE BofA Move Index making a new high for the year on Wednesday.
- Spreads on agency residential mortgage-backed securities (RMBS)
 continued to widen, with the option-adjusted spread on the Bloomberg
 U.S. MBS Index closing at a four-month high.
- The Bank of Canada cut the overnight rate by 0.50% to 3.75%, with the central bank looking to stimulate growth and increase activity in the real estate sector.

International Equities

- Foreign stocks stumbled during the week as investors grappled with weakening economic data, the trajectory of interest rate cuts across major central banks and the still-too-tight-to-call U.S. election.
- Foreign developed markets struggled to gain traction as stock prices fell in Japan and Europe. Japanese stocks faltered ahead of the weekend's election as polls suggest the ruling coalition could lose its parliamentary majority, depriving the Bank of Japan of the political stability needed to steer a smooth liftoff from near-zero interest rates.
- Emerging markets fell for the third week as weakness across Asian and Latin American markets drove the index lower. South Korea narrowly avoided a technical recession, with its third-quarter GDP growing 0.1% quarter-over-quarter. Over the last year, the country's economy grew 1.5%, slower than the 2% increase expected by economists.

Economics

- Initial jobless claims came in better than expected for the week. On Thursday, jobless claims showed an increase of 227,000, which was lower than the consensus estimate of 247,000. In recent weeks, claims have been elevated due to the aftermath of several hurricanes.
- New home sales for September showed a strong increase of 738,000. This
 exceeded expectations for 718,000 and was the best reading since May
 2023.
- Consumer sentiment was released on Friday and reached a six-month high of 70.5. This exceeded expectations of 69.0 and was an increase from September's reading of 68.9.
- Third-quarter GDP will be released on Wednesday, and October's employment report will be released on Friday.



Weekly Market Update

For Week Ending October 25, 2024

Markets					Equ	ity Styl	le							Economic Data		
			Change From		6,20	20									Last Balanca	V A
Capital Markets	Last Price	Prior Week	Year End	Year Ago				S&P 500						Inflation	Last Release	Year Ago
Dow Jones Industrial Avg	42,114.40	-2.7%	13.4%	30.0%	5,70						m	~~~		CPI Headline Inflation	2.4%	3.7%
S&P 500 Index	,	-2.7%	23.1%		5,20	00 -			~~~		. /			CPI Core Inflation		4.1%
	5,808.12			40.7%	4,70	nn -	~~~	144	V						3.3%	
NASDAQ Composite	18,518.61	0.2%	24.1%	45.5%										Personal Consumption Exp (PCE) Core	2.7%	3.8%
S&P 400 Midcap Index	3,107.51	-2.8%	13.1%	34.6%	4,20	00 -										
S&P 600 Smallcap Index	1,390.67	-3.1%	7.0%	31.6%	3,70	00 -								Jobs		
MSCI EAFE	8,416.85	-2.0%	8.1%	23.4%	3,20	nn -								Unemployment Rate (U3)	4.1%	3.8%
MSCI Emerging Markets	604.88	-1.7%	13.3%	26.4%										Broader Unemployment Rate (U6)	7.7%	7.0%
Bloomberg US Agg	2,205.88	-0.9%	2.0%	11.1%	2,70	JU -								JOLT Survey (in millions)	8.04	9.36
Bloomberg Municipal 5 Yr	494.91	-0.7%	1.2%	6.8%	2,20	00 —		+ +		-	+ +			Jobless Claims (000's)	227	213
Bloomberg US Corporate	3,316.24	-1.0%	3.0%	14.0%		Oct-23	Dec-23	Feb-2	4 Apr-24	Ju	un-24	Aug-24	Oct-24	Change in Non-Farm Payroll (000's)	254	246
Bloomberg Glb Agg ex US Hdg	587.11	-0.3%	3.9%	9.9%								•		Average Hourly Earnings (Y/Y % Change)	4.0%	4.5%
Bloomberg High Yield	2,664.89	-0.4%	7.5%	16.8%			1 Month				v	ear to Da	to*			
MSCI US REIT Index	2,434.15	-1.7%	13.2%	39.5%	1 Month				real to Date			ear to Da	le	Consumer & Spending		
Bloomberg Commodity Index	240.21	2.1%	6.1%	0.6%		Value	Core	Growth			Value	Core	Growth	Consumer Confidence (Conf Board)	98.7	104.3
					a)					a)				Consumer Spending (\$ Bil)	19,897	18,912
	Last Price/Yield	Prior Week	Year End	Year Ago	Large	0.85	1.59	2.15	> 10%	arge	14.84	23.12	30.56	Consumer Credit (\$ Bil)	5.098	4.982
Key Rates					Ľ					۳				Retail Sales (\$ Bil)	714	702
Fed Funds Target	5.00%	5.00%	5.50%	5.50%										,		
3-Month Treasury	4.63%	4.63%	5.33%	5.46%	Mid	1.36	0.70	0.09	0% - 10%	Μ̈́	9.98	13.07	15.95	Housing		
1-Year Treasury	4.30%	4.18%	4.76%	5.43%	2				0,0 10,0	2				Housing Starts (000's)	1.354	1.363
2-Year Treasury	4.10%	3.95%	4.25%	5.12%	l _					_				Case-Shiller Home Price Index	325.78	310.39
5-Year Treasury	4.06%	3.88%	3.85%	4.92%	Small	0.20	-0.35	-0.92	<0%	Small	4.13	6.98	9.75	Case Chiller Home Fried Index	0200	0.0.00
7-Year Treasury	4.15%	3.97%	3.88%	4.98%	۳	0.20	0.00	0.02	2070	ည်	4.10	0.00	0.70	U.S. Productivity		
10-Year Treasury	4.24%	4.08%	3.88%	4.95%		*S&P Indice	25							Real Gross Domestic Product (\$ Bil)	23,224	22,539
30-Year Treasury	4.50%	4.39%	4.03%	5.09%			-							Quarter over Quarter Change	3.0%	2.4%
30-Teal Treasury	4.50%	4.39%	4.03%	5.09%	Five	d Inco	me Style							Year Over Year Change	3.0%	2.4%
Consumer Rates					I IAC	a iiicoi	ine Otyle							ISM Manufacturing	47.20	48.60
30-Year Mortgage	7.21%	6.96%	6.99%	5.83%	5.7	5% ¬			Yield Curve	•					47.20 77.49	78.93
Prime Rate	7.21% 8.75%	8.75%	9.25%	9.25%	5.5	0% -	_							Capacity Utilization		
					5.2	5% -								Markit US Composite PMI	54.30	50.70
SOFR	4.83%	4.84%	5.38%	5.30%	5.0									11.0.0		
6 III					4.7									U.S. General		
Commodities					4.5									Leading Economic Indicators	99.7	104.7
Gold	2,747.56	2,721.46	2,062.98	1,979.72										Trade Weighted Dollar Index	124.2	124.1
Crude Oil (WTI)	71.78	68.69	71.65	78.20	4.2			<u> </u>						EUR / USD	1.08	1.06
Gasoline	3.14	3.18	3.12	3.53	4.0									JPY / USD	152.31	150.23
Natural Gas	2.56	2.26	2.33	3.80	3.7						Curr	rent		CAD / USD	0.72	0.72
Copper	4.37	4.38	3.89	3.71	3.50% -				4 Veer Ase					AUD / USD	0.66	0.63
					3.2	5% -	——1 Year Ago				ear Ago					
					3.0	0% ┴	-	-	-	-		+				
	P/E	P/E	Price to	Current Div			3 Mo	2 Yr	5 Yr	7 Y	/r 1	0 Yr	30 Yr	S&P 500 Sector Returns		
	Forward	Trailing	Book	Yield											1 Month	YTD
Index Characteristics							1 Month					ear to Da		Information Technology	3.52%	34.22%
Dow Jones Industrial Avg	21.91	21.55	5.28	1.77		Short	Interm.	Long			Short	Interm.	Long	Utilities	0.26%	30.01%
S&P 500	24.07	24.90	5.17	1.32	L +	_				+				Communication Services	1.95%	29.25%
S&P 500 Value	18.34	18.68	2.98	2.29	Govt	-0.64	-1.52	-5.15	> 10%	Govt	3.55	2.69	-3.11	Financials	4.22%	25.51%
S&P 500 Growth	31.46	33.36	11.71	0.61	0					9				Industrials	1.09%	20.13%
NASDAQ	34.56	35.85	7.02	0.71	_					_				Consumer Staples	-1.45%	16.87%
S&P Midcap 400	17.74	17.47	2.61	1.72	Corp	-0.43	-1.29	-3.93	0% - 10%	Corp	4.66	4.34	0.24	Consumer Discretionary	0.12%	14.29%
S&P Smallcap 600	17.03	16.89	1.90	2.44	Ö					Ó				Real Estate	-1.30%	12.82%
MSCI EAFE	14.87	15.29	1.94	3.18										Materials	-1.36%	11.30%
MSCI Emerging Markets	13.77	14.97	1.86	3.42	¥	0.42	-0.29	-0.66	<0%	눞	8.27	7.48	6.29	Energy	3.10%	10.72%
MOOT Efficiging Markets	13.77	17.31	1.00	5.42	1	0.42	0.23	0.00	2076	T	- 0	1.10	0.20	Health Care	-2.62%	10.72%
Course: Bloomhora					1	1-3 Yrs	1-10 Yrs	+10 Yrs			1-3 Yrs	1-10 Yrs	+10 Yrs	ricaiii Caic	-2.0270	10.3470
Source: Bloomberg						1-9 118	1-10 115	TIUTIS			1°3 11S	1-10 1/5	TIUTIS			

© 2024 BOK Financial Corp. Services provided by BOKF, NA, Member FDIC. BOKF, NA is the banking subsidiary of BOK Financial Corporation. BOK Financial Corporation (BOKF) offers wealth management and trust services through various affiliate companies and non-bank subsidiaries including advisory services offered by BOKF, NA as the banking subsidiary of BOK Financial Corporation. BOK Financial Corporation (BOKF) offers wealth management and trust services through various affiliate companies and non-bank subsidiaries including advisory services offered by BOKF, NA as the banking subsidiary of BOKF, NA which is a division of BOKF, NA as the banking subsidiary of BOKF, NA as the banking subsidiary of BOKF, NA which is a division of

This report is not to be considered a recommendation of any particular security, strategy or investment product, nor is it intended to provide personal investment advice. It does not take into account any specific investment objectives, financial situations, or particular needs of any specific person who may receive this report. The information provided in this presentation is for informational purposes only and is not an offer to buy any securities in any jurisdiction. Investment advice regarding the appropriateness of investing in any securities, other investment or investment strategies discussed in this report and should understand that statements regarding future prospects may not be realized. Information contained herein has been obtained from sources believed to be reliable, but not guaranteed.

Investments are not insured by the FDIC and are not guaranteed by any bank or bank affiliate. Investments are subject to risks, including the possible loss of the principal amount invested. This report may not be reproduced, redistributed, retransmitted or disclosed, or referred to in any publication, in whole or in part, or in any form or manner, without the express written consent of BOKF. Any unauthorized use or disclosure is prohibited.

Disclosures



The information provided herein was prepared by the Investment Management team of BOKF, NA. BOKF, NA is the bank subsidiary of BOK Financial Corporation (BOKF), a financial services holding company (NASDAQ:BOKF). BOKF offers trust and wealth management services through its subsidiaries including BOKF, NA (and its banking divisions Bank of Oklahoma, Bank of Texas, Bank of Albuquerque, and BOK Financial) and investment advisory services through its non-bank subsidiaries, Cavanal Hill Investment Management, Inc., and BOK Financial Private Wealth, Inc., each an SEC registered investment adviser, and BOK Financial Securities, Inc., also an SEC registered investment adviser and registered broker/dealer, member FINRA/SIPC (each an "Investment Affiliate") (collectively, "BOKF"). Distribution of this document is intended for informational purposes. Information contained herein has been obtained from sources believed to be reliable, but not guaranteed. The opinions expressed herein reflect the judgment of the author(s) as of the date prepared and are subject to change without notice and are not a complete analysis of any sector, industry, or security regardless of the date on which the reader may receive or access the information. The information provided is intended to be educational in nature and not advice relative to any investment or portfolio offered through an Investment Affiliate, and does not constitute any form of regulated financial, legal, or tax advice, or other regulated financial service. The content provided herein is not a solicitation for the investment management services of any Investment Affiliate, nor is it intended to constitute a recommendation for, or advice to, any specific person on behalf of any Investment Affiliate, as it does not take into account the financial objectives, situation, or needs of any specific person. This information is provided on the understanding that the recipient has sufficient knowledge and experience to be able to understand and make their own evaluation of said content, any risks associated therewith, and any related legal, tax, accounting, or other material considerations. Recipients should not solely rely on this material in making any future investment decision. To the extent that the recipient has any questions regarding the applicability of any specific issue discussed above to their specific portfolio or situation, they are encouraged to consult with a qualified lawyer, accountant, or financial professional.

This document may contain forward-looking statements that are based on management's beliefs, assumptions, current expectations, estimates, and projections, the securities and credit markets and the economy in general. Words such as "anticipates," "believes," "estimates," "expects," "forecasts," "plans," "projects," variations of such words and similar expressions are intended to identify such forward-looking statements. Management judgments relating to and discussion of the value and potential future value or performance of any security, group of securities, type of security or market segment involve judgments as to expected events and are inherently forward-looking statements. These statements are not guarantees of future performance. Likewise, past performance is not a guarantee of future results. This content is prepared for the use of the Investment Affiliates and their clients and prospective clients, and may not be reproduced, redistributed, retransmitted or disclosed, or referred to in any publication, in whole or in part, or in any form or manner, without the express written consent of BOKF or BOKF, NA. Any unauthorized use or disclosure is prohibited. Receipt and review of this document constitutes your agreement not to redistribute, retransmit, or disclose to others the contents, opinions, conclusion, or information contained herein. This report should not be distributed without the attached disclosures, and is considered incomplete if the disclosures are not attached.

*This chart is for illustrative purposes only and not indicative of any actual investment.

Asset allocation, diversification, and rebalancing do not ensure a profit or protect against loss in declining markets. Investing involves risks, including possible loss of principal, and there is no guarantee that investment objectives will be achieved.

BOK Financial® is a trademark of BOKF, NA. Member FDIC. Equal Housing Lender. 2024 BOKF, NA.

INVESTMENT AND INSURANCE PRODUCTS ARE: NOT FDIC INSURED | NOT GUARANTEED BY THE BANK OR ITS AFFILIATES | NOT DEPOSITS | NOT INSURED BY ANY FEDERAL GOVERNMENT AGENCY | MAY LOSE VALUE