

# April 2024



### WJ Charts of the Month Intro

"WJ Charts of the Month" is a comprehensive monthly slide deck designed to showcase recent significant financial events and data. The presentation is organized into four sections, beginning with a "Highlights" slide that sets the stage for the subsequent content.

- **1. What Happened Last Month:** This section features a curated collection of charts and images from various publications, offering a visual summary of the previous month's key events.
- **2. WJ State of the Economy:** Our team at WJ has created an array of charts to emphasize crucial economic factors and trends.
- **3. WJ State of the Markets:** Similarly, this section comprises a series of charts crafted by WJ to provide an overview of the core markets we monitor.

We strive to maintain consistency across the charts to facilitate easy comparison month-over-month. However, we may adjust or emphasize specific charts if their relevance shifts over time.

Our objective with this publication is to establish a "One-Stop Shop" for the most vital financial information, presented in a concise and easily digestible format. **We value your feedback to help us achieve this goal.** If you have suggestions regarding the format, or if there's particular information you'd like to see in future editions, please don't hesitate to let us know.

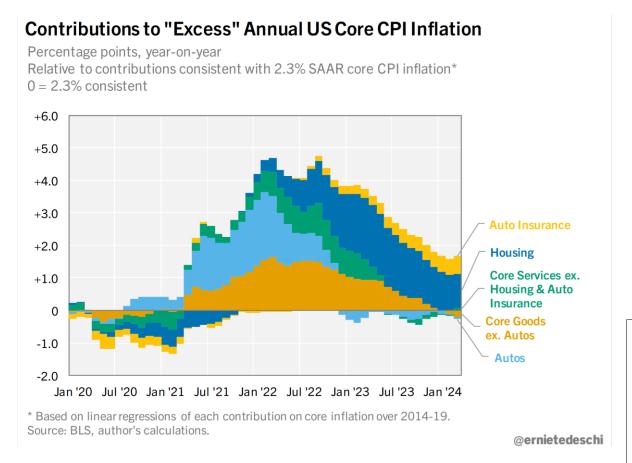
## Highlights

- Another Hot Inflation Report...
- Violent Crime is Falling
- Electricity Demand is Going Way Up
- Immigration Holding Up Employment?
- Total Solar Eclipse
- Q1 GDP Lower Than Expected
- Employment Situation Slightly Worsening
- Tough Month for All but Alts

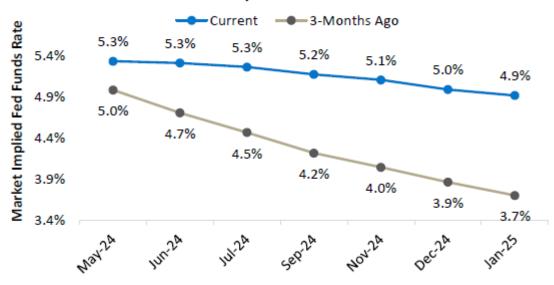




## Another Hot Inflation Report



#### Market Implied Fed Funds Rate



For the 3<sup>rd</sup> month in a row, CPI inflation came in hotter than expected. The chart on the left breaks down what is contributing to "excess inflation", which is the inflation above or below what was normal in the past. Overwhelmingly, the excess inflation is from Housing and Auto Insurance.

As a result, the market adjusted its expectations of what the Fed will do this year. 3 months ago, the market expected rates to be cut over 1% by the end of the year. After the 3 higher inflation prints, it now expects only about a .25% cut.



### Though Real Time Rent and Auto prices are falling

Interestingly, however, the Fed's more current index of housing inflation (blue line) fell to 0.42% year over year, rather than the 5.9% (orange line) used in CPI. We'd expect these two lines to meet in the next year or so. In addition, the Manheim US Used Vehicle index declined 2.3% in April alone, and 14% over the last year. Used car prices are the primary input cost to auto insurance, which you'll recall was the 2<sup>nd</sup> largest contributor to CPI.

It would be interesting to know to what degree the Fed considers how lagged indicators contribute to each months inflation print, and whether they internally adjust for them. That may determine how they react later in the year.

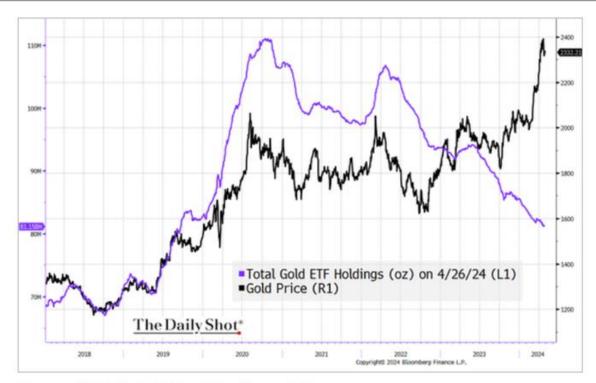




### China's Weakness is Gold's Tailwind

Gold has had quite the rally recently, but interestingly, the gold ETF (GLD) has lost assets over this time. So who's buying? China's consumer demand has been weak, the currency is under pressure as real estate and stock valuations have crashed, and the government feels it has too much reliance on the US dollar.

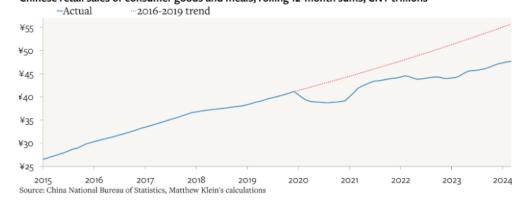
In response, both Chinese citizens as well as the People's Bank of China (PBC) have been loading up on gold, causing the price to rise.



Source: @TheTerminal, Bloomberg Finance L.P.

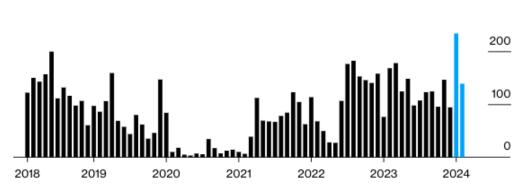
#### Demand, Destroyed

Chinese consumer spending plunged during the pandemic, remained low for much of 2020, and then stagnated in 2021-2022. Spending has since grown, but remains 14% below the prior trend. Chinese retail sales of consumer goods and meals, rolling 12-month sums, CNY trillions



#### Chinese Gold Imports Surge as 2024 Begins

■ Non-monetary gold imports into China

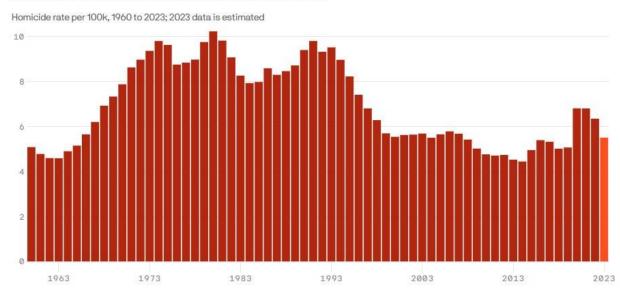


300tons

Source: China Customs

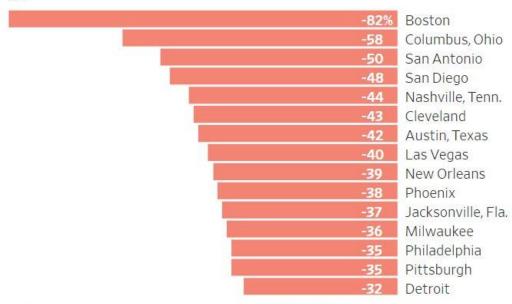
## Violent Crime is Falling

#### Annual rate of homicides in the U.S.



Reproduced from Datalytics; Chart: Axios Visuals

Big cities with the largest year-to-date decline in homicides, 2023-24\*



\*Cities' data through dates between March 31 and April 12, depending on the city Sources: AH Datalytics and police departments

Violent crime has fallen by almost 50% in the last 30 years or so. However, during and immediately after the pandemic, crime spiked.

Fortunately, it looks likely that the spike was more due to the strange nature of the pandemic and is on its way to continue the pre-pandemic trend downwards.

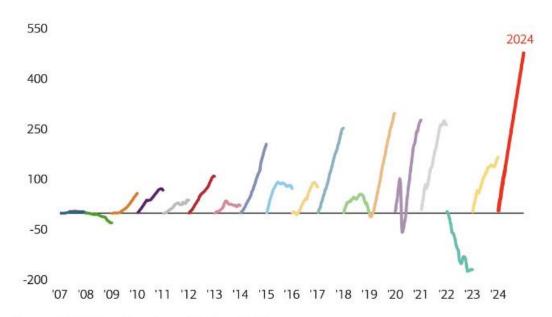


## People are Buying a Lot of Bonds/Cash

Last month, I posted some charts about how tight credit spreads are, and how that's reflective of the low perceived risk of corporate credit. The chart on the right is another illustration of that, as inflows are on pace for a record year of investment grade (IG) corporate bond buying.

The dramatic inflows into money market funds (MMFs) have also continued into this year, however it is slowing from last year.

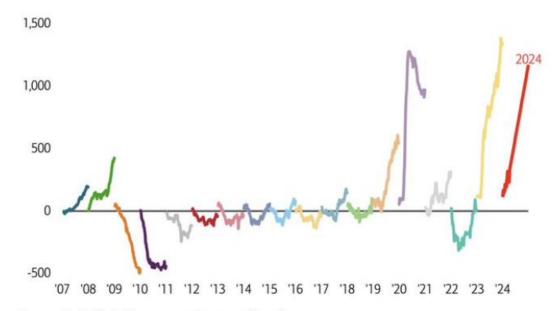
### Chart 13: Inflows to IG bonds YTD on pace for record year Cumulative annual flows to IG bond funds (\$bn)



Source: BofA Global Investment Strategy, EPFR

**BofA GLOBAL RESEARCH** 

### Chart 11: Inflows to MMFs on pace for 2<sup>nd</sup> highest year on record Cumulative annual flows to money market funds (\$bn)



Source: BofA Global Investment Strategy, Bloomberg.





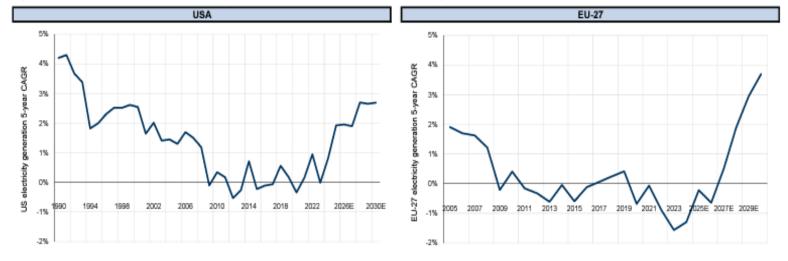
## Electricity Demand is Going Way Up

The charts below from Goldman Sachs research team shows the amount of electricity we'll need to generate in the coming years to support the electrification of everything (heat pumps, vehicles, data centers). There is going to be an enormous amount of infrastructure spending on both renewable and nonrenewable sources, transmission, and distributed energy storage. Another major factor for that increased energy usage will be due to AI (artificial intelligence), and the amount of energy it takes to train, and use the large models becoming popular today.

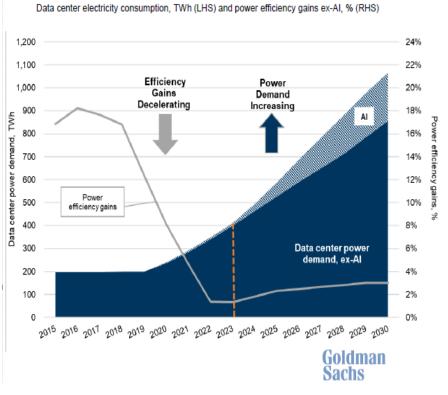
For a great read on the electrification of everything, I'd highly recommend reading "Electravision" from JP Morgan.

### Exhibit 2: Generational Growth: Our Utilities Research teams now expect USA and EU-27 electricity consumption accelerating through the end of the decade to levels not seen in 20+ years

5-yr CAGR for US and European electricity demand; forecasts from our US and Europe Utilities Research teams



Source: EIA, EMBER, Goldman Sachs Global Investment Research

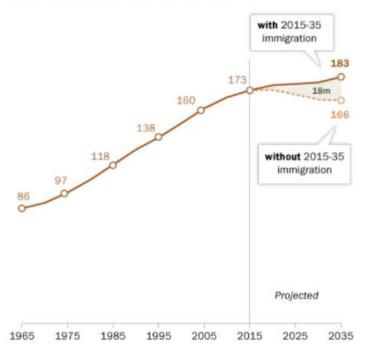




### Surging Immigration has Supported Unemployment

### Without future immigrants, working-age population in U.S. would decrease by 2035

Working-age population (25-64), in millions



Note: Numbers for 2015 onward are projections.

Source: Pew Research Center estimates for 1965-2015 based on adjusted census data; Pew Research Center projections for 2015-2035.

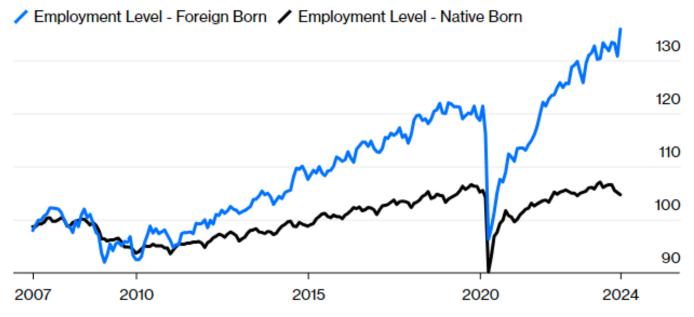
PEW RESEARCH CENTER

I knew immigration had a large impact on the employment situation, but I was surprised to find that immigrants made up all new jobs since the pandemic. I'd assume much of the drop off in native born employment is from aging demographics and early retirements.

Not sure to what extent this trend will continue, or if overall employment might start to fall with decreasing immigration. I do know however that a strong job market has been one of the Fed's primary reasons not to lower interest rates, and it appears this dynamic is entirely supported by immigration.

#### **Big Immigration**

All US employment growth in the pandemic era comes from immigrants



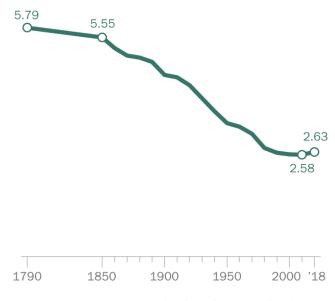
Source: Federal Reserve Bank of St Louis FRED Service

Note: Re-based: 12/01/2007 = 100

## Housing In America

## This decade will likely be the first in at least 160 years in which American households have more people

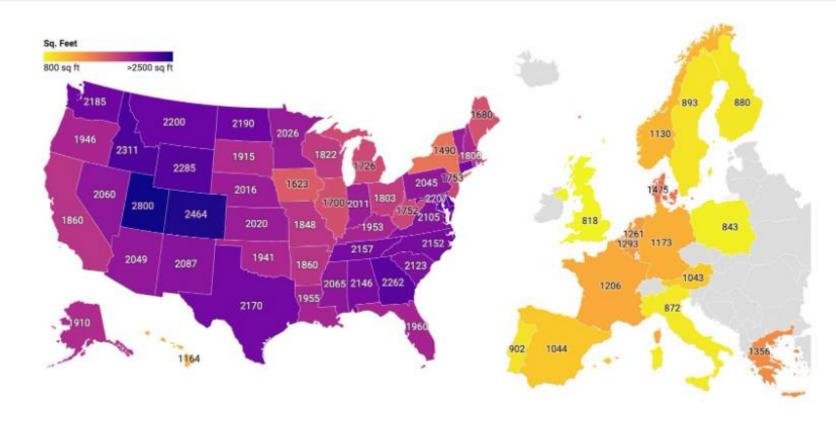
Average number of people per household



Note: Data labels are for 1790, 1850, 2010 and 2018. Average household size is not available for the years between 1790 and 1850.

Source: Pew Research Center analysis of Census historical statistics, 2010 Census SF1 data and 2018 American Community Survey.

#### PEW RESEARCH CENTER



Above are the average square footage of homes in the US vs in Europe. Homes in the US are about double the size in Europe, and about 61% larger than 40 years ago.

This is despite the average number of people living in a home decreasing over time.



## We Had a Total Solar Eclipse!



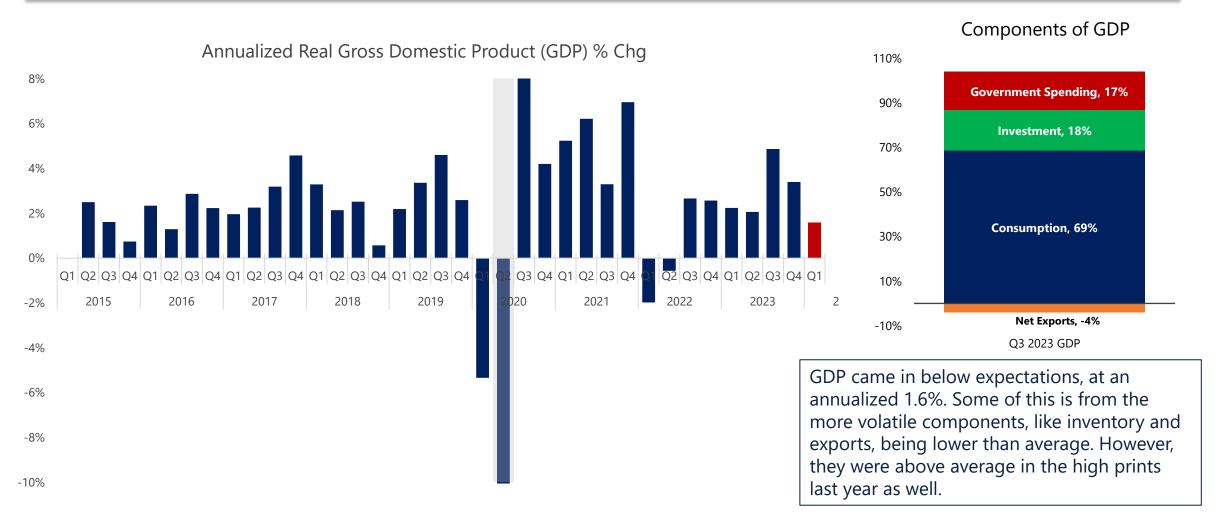
• Total Eclipse April 8, 2024 •

Chad DeCuir Photography

One of our clients is a photographer and has shared many incredible photos of his travels with us. Last month, he traveled to Waco, about 40 miles from the center of totality, and was able to take this composite of amazing photos despite all the cloud cover! Appreciate this one, because we won't see another Solar eclipse from Texas until 2044.

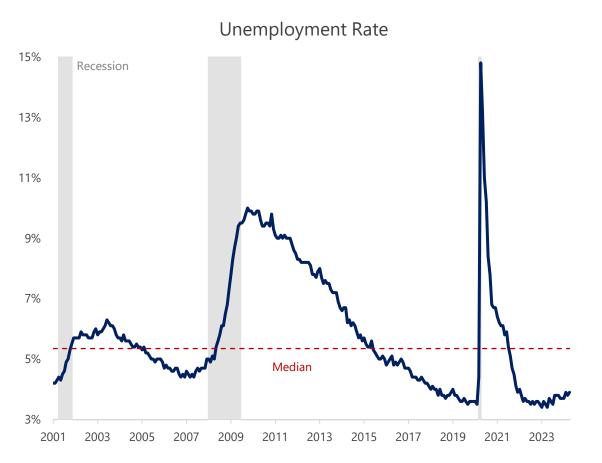


### US Economic Growth at 1.6%





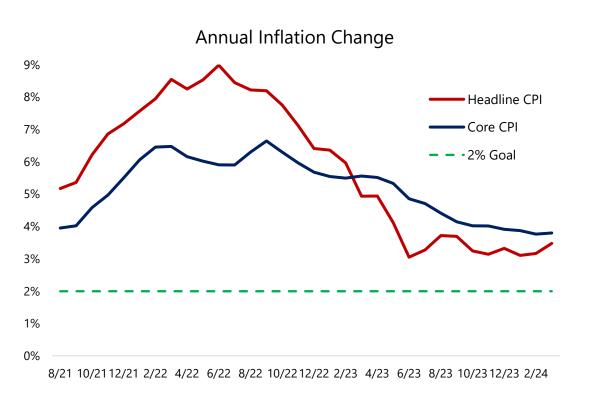
### Unemployment Rate Up, Quits and Job Openings Going Down

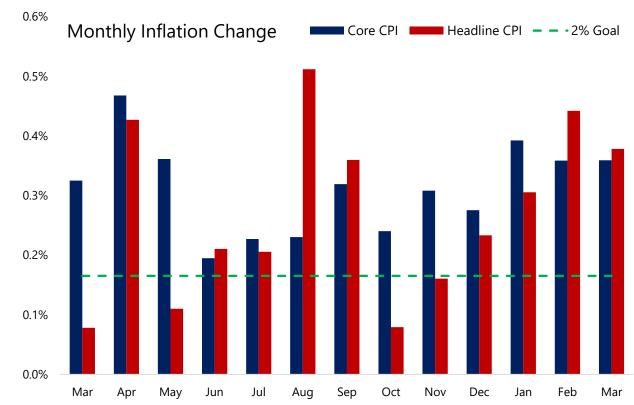


#### Job Opening per Seeker and Quits 2.0 5000 Recession 1.8 4500 1.6 4000 Jop Openings per Seeker 3500 3000 2500 0.4 2000 0.2 0.0 1500 2001 2023 2009 2015 2017 2019 2021



### Inflation Continues to Be Stubborn

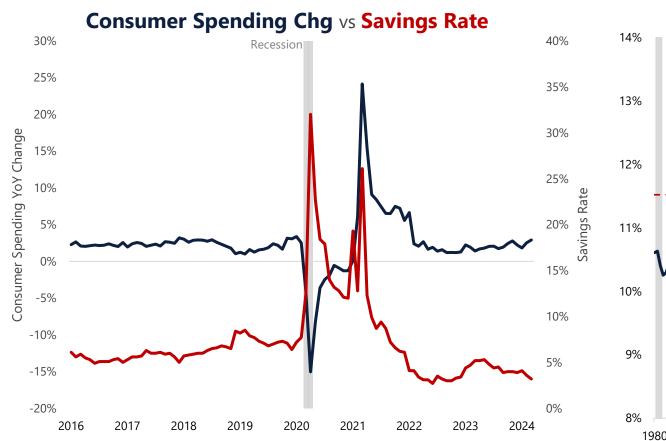




CPI continues to be higher than the Fed wants. Though some of this might be construction issues with the index, it likely will lead the Fed to leave interest rates higher for longer.



## Household Spending is Still Strong

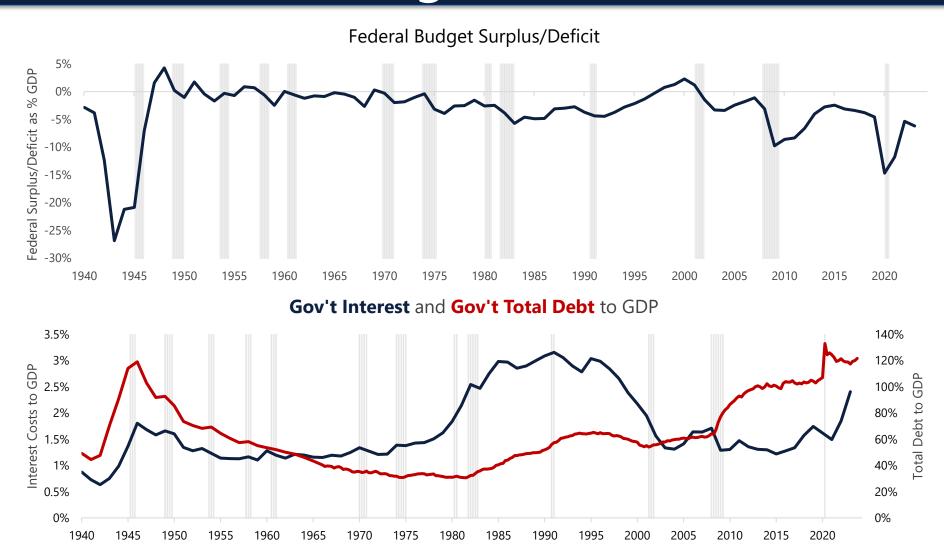








## Government Budget Deficit Increased

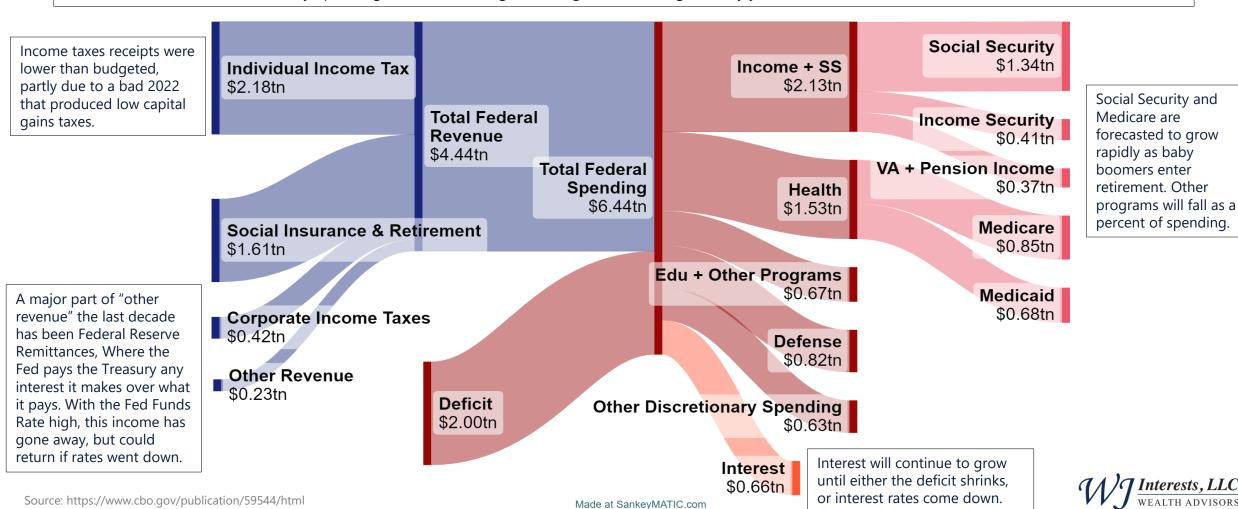




Source: Federal Reserve Economic Database (FRED) Federal Surplus or Deficit [-] as Percent of Gross Domestic Product (top) and Federal Debt: Total Public Debt as Percent of Gross Domestic Product plus Federal Outlays: Interest as Percent of Gross Domestic Product (bottom). Recessions from NBER based Recession Indicators for the United States from the Period following the Peak through the Trough

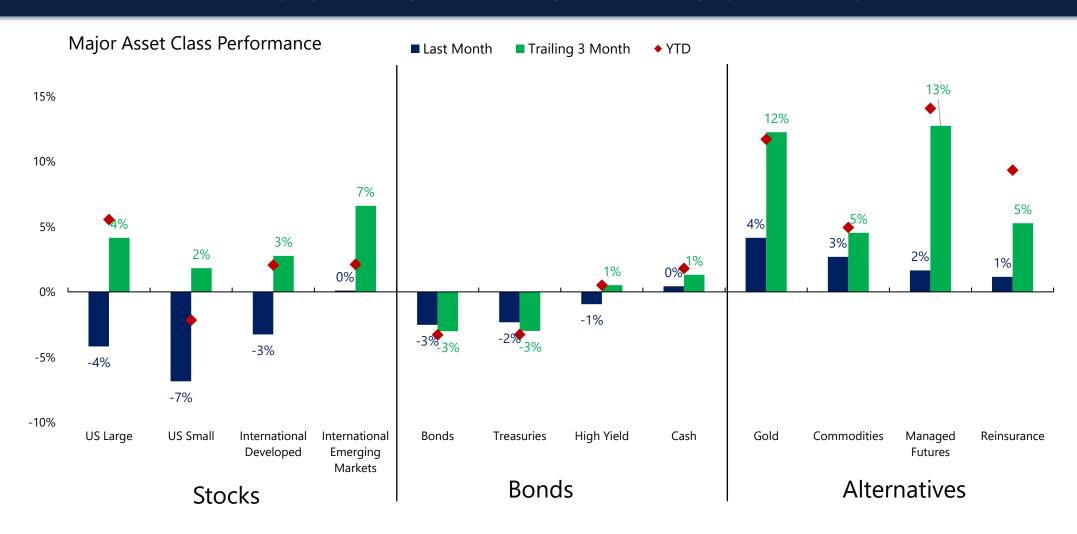
## Government Expenditures 2023

This is a new chart we've made that we'll update as new expenditure/budget data comes out. It's an in depth look at how the US makes money, and how it spends it. On the spending side, the top 3 categories are known as "mandatory spending" and are unable to change without major reform. That leaves "Defense" and "Other Discretionary Spending" as the two categories congress can change on any year.



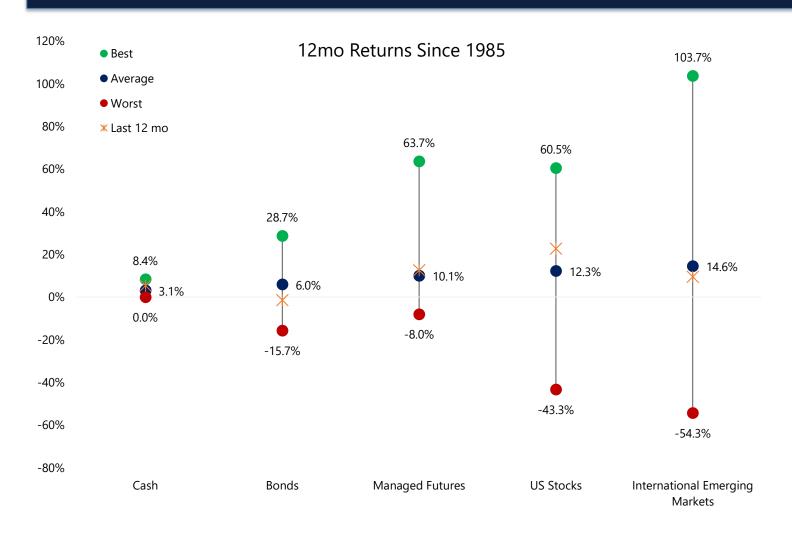


### Bad Month for All but Alts





### Historical Asset Class Return Range

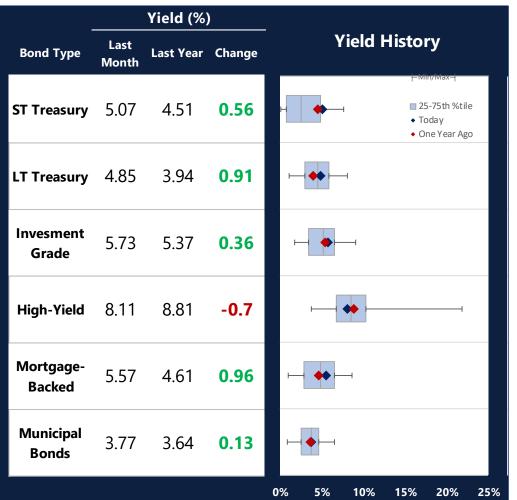


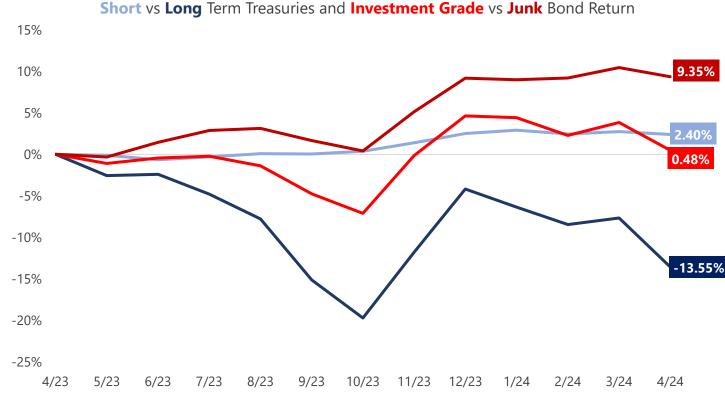
This chart shows the range of 12 month returns historically, by asset class. As you'd expect, the riskier investment leads to a greater potential gain, as well as loss.

The X on the line represents the last 12 months.



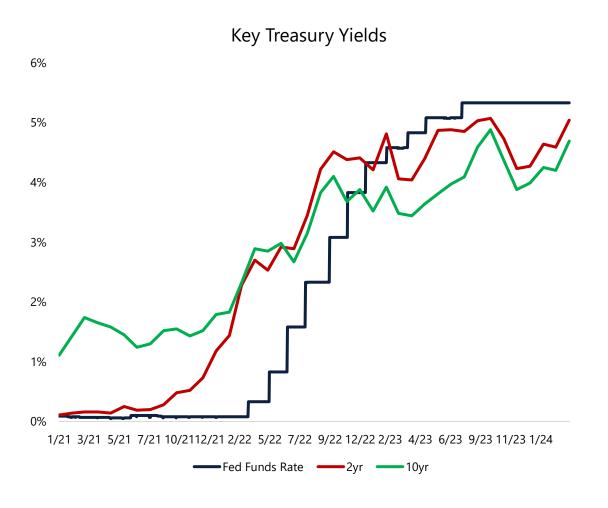
## Treasury Bonds Continue to Struggle

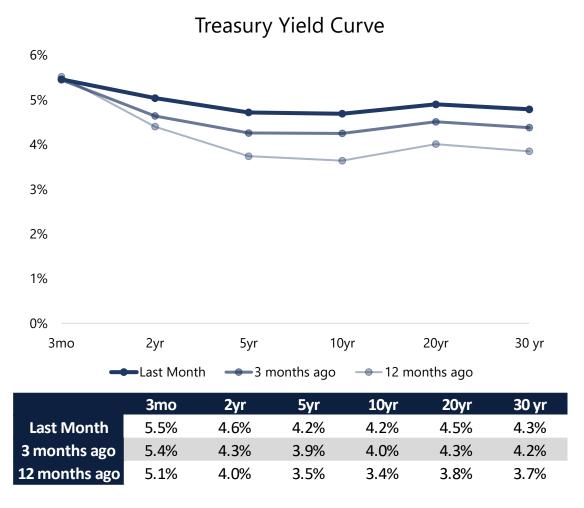






## Yields Are Going Back Up With Stubborn Inflation

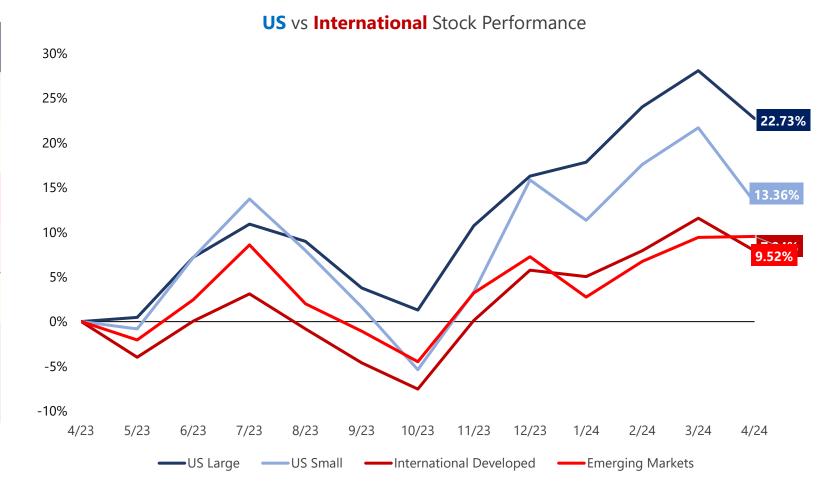






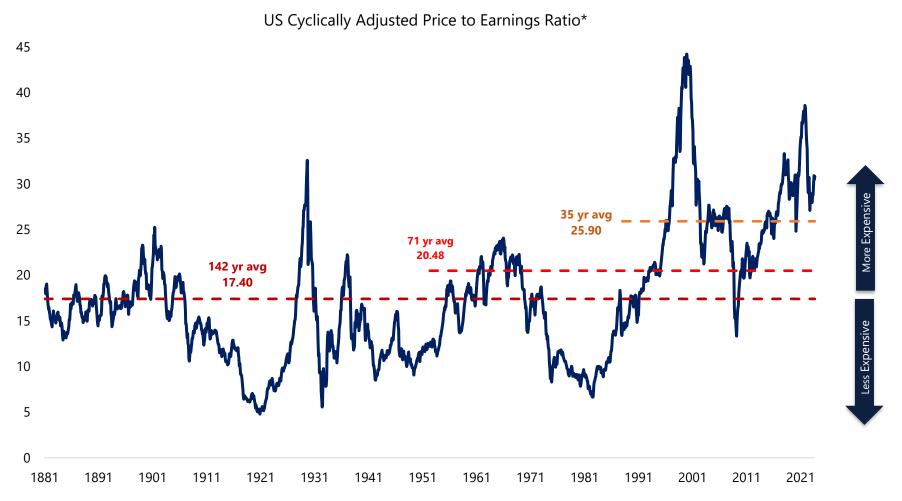
## Tough Month For Stocks

	Stock Type	Last Month	Last 3 Months	Last 12 Months	
	US Large	-4.2%	4.2%	22.7%	
Core	US Small	-6.8%	1.8%	13.4%	
ပိ	International Developed	-3.3%	2.8%	7.9%	
	International Emerging	0.1%	6.6%	9.5%	
	US Value	-4.3%	4.2%	13.2%	
Other	US Growth	-4.3%	4.0%	31.6%	
	Nasdaq	-4.4%	1.9%	32.5%	





## US Stocks Valuation Still High



<sup>\*</sup>CAPE or Cyclically Adjusted Price to Earnings Ratio takes the current price and divides it by the last 10 years average earnings for the S&P 500 and adjusts it for inflation. It is thought to be more predictive of future returns than trailing 12 month or Forward PE.

Source: Data and CAPE Ratio were developed by Robert Shiller using various public sources.



## Oil Has Settled, and Nat Gas Remains Low





### Periodic Table of Asset Class Returns

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024 YTD
Trend Following	Reinsurance	US Small Stock	Intl Emerging Stk	Cash	US Large Stock	US Large Stock	US Large Stock	Trend Following	Reinsurance	Trend Following
20%	8%	22%	37%	2%	31%	21%	26%	22%	44%	<b>9</b> %
US Large Stock	Bonds	US Large Stock	Intl Developed Stk	Bonds	US Small Stock	US Small Stock	US Small Stock	Reinsurance	US Large Stock	Reinsurance
13%	2%	12%	27%	0%	25%	20%	15%	3%	26%	<b>9</b> %
Reinsurance	US Large Stock	Intl Emerging Stk	US Large Stock	US Large Stock	Intl Developed Stk	Intl Emerging Stk	Intl Developed Stk	Cash	Intl Developed Stk	US Large Stock
11%	1%	10%	22%	-5%	23%	18%	12%	2%	18%	6%
Bonds	Cash	Moderate Blended Port	TAA	Moderate Blended Port	TAA	Moderate Blended Port	Moderate Blended Port	Bonds	Moderate Blended Port	TAA
8%	0%	6%	19%	-8%	20%	13%	11%	-12%	17%	4%
Moderate Blended Port	Intl Developed Stk	Reinsurance	Moderate Blended Port	Reinsurance	Moderate Blended Port	Intl Developed Stk	TAA	TAA	US Small Stock	Intl Emerging Stk
8%	0%	<b>6</b> %	17%	-6%	20%	8%	10%	-12%	17%	2%
US Small Stock	Trend Following	TAA	US Small Stock	TAA	Intl Emerging Stk	Reinsurance	Trend Following	Moderate Blended Port	Intl Emerging Stk	Intl Developed Stk
5%	0%	5%	15%	-8%	18%	<b>7</b> %	5%	-15%	12%	2%
TAA	Moderate Blended Port	Intl Developed Stk	Bonds	US Small Stock	Bonds	Bonds	Cash	Intl Developed Stk	TAA	Moderate Blended Port
5%	0%	2%	5%	-11%	8%	<b>7</b> %	0%	-15%	12%	2%
Cash	TAA	Bonds	Trend Following	Trend Following	Trend Following	Trend Following	Bonds	US Large Stock	Bonds	Cash
0%	-4%	1%	2%	-13%	4%	3%	-1%	-19%	<b>6</b> %	2%
Intl Emerging Stk	US Small Stock	Cash	Cash	Intl Developed Stk	Cash	Cash	Intl Emerging Stk	Intl Emerging Stk	Cash	US Small Stock
-3%	-4%	0%	1%	-14%	2%	0%	-1%	-20%	5%	-2%
Intl Developed Stk	Intl Emerging Stk	Trend Following	Reinsurance	Intl Emerging Stk	Reinsurance	TAA	Reinsurance	US Small Stock	Trend Following	Bonds
-5%	-14%	-6%	-11%	-15%	-4%	-2%	-5%	-20%	-3%	-3%

Through Last Month End					
4/30/2024					
5 Yr	10 Yr				
US Large Stock	US Large Stock				
13%	12%				
Reinsurance	US Small Stock				
10%	7%				
Trend Following	Moderate Blended Port				
<b>7</b> %	<b>6</b> %				
Moderate Blended Port	Reinsurance				
6%	5%				
Intl Developed	Intl Developed				
Stk 6%	Stk 5%				
• 70	270				
US Small Stock	Trend Following				
6%	4%				
TAA	TAA				
3%	4%				
Intl Emerging Stk	Intl Emerging Stk				
2%	3%				
Cash	Bonds				
2%	2%				
Bonds	Cash				
0%	1%				

### Disclaimer

PAST PERFORMANCE IS NOT A GUARANTEE OF CURRENT OR FUTURE RESULTS. Examples and historical information included in this presentation do not, nor are they intended to, constitute a promise of similar future results. Specific client portfolio allocations, risks and returns can and may deviate from these examples depending on accounts and types of investments available through each account. Future market views by WJ Interests, LLC may vary significantly from the historical examples presented herein and no one receiving this summary should assume that WJ Interests, LLC will be able to replicate successful views in the future.

Moderate Blended Portfolio is for illustrative purposes only. It is calculated by taking a weighted average of the following asset classes and represents a moderate risk portfolio incorporating leverage and the asset classes in the table:

28% US Large Stock iShares Russell 1000 (IWB)
6% US Small Stock iShares Russell 2000 (IWM)
21% Intl Developed Stock iShares Core MSCI EAFE (IEFA)

6% Intl Emerging Stock iShares Core MSCI Emerging Markets (IEMG)

41% Bonds Vanguard Total Bond Market (BND)
 -18% Cash Morningstar USD 1M Cash TR USD
 4% Reinsurance Stone Ridge Reinsurance Fund (SRRIX)

6% Managed Futures SG Trend Index, PIMCO Trends (PQTIX), Virtus Alphasimplex (ASFYX), Standpoint (BLNDX)

6% TAA GMO Benchmark Free (GBMIX) and Strategy Shares Nwfnd/Rslv Rbt ETF (ROMO)

Assumes annual rebalancing. All data represents total return for stated period.

