

**TEXAS MUNICIPAL LEAGUE
PUBLIC FUNDS INVESTMENT ACT
WORKSHOP**

***Understanding Economic Indicators
March 9, 2023***

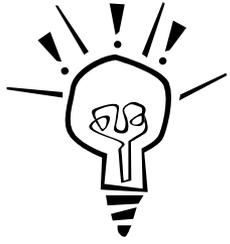
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MAKING ECONOMICS EASY TO UNDERSTAND

???

- **Economics is the study of supply and demand**
- **Inflation vs. deflation is dependent on supply and demand**

KEY QUESTIONS

- **What investment returns can municipalities expect to earn?**
- **Why are interest rates rising?**
- **Why is inflation rising?**
- **What is the state of the economy?**

Demand and Supply

- If demand exceeds supply, prices will rise, and inflation is a risk.
- If supply (or capacity to provide supply) exceeds demand, prices will fall, and deflation is a risk.
- ***COVID-19. What happens when both supply and demand crash due to a world-wide pandemic?***

Monetary Policy

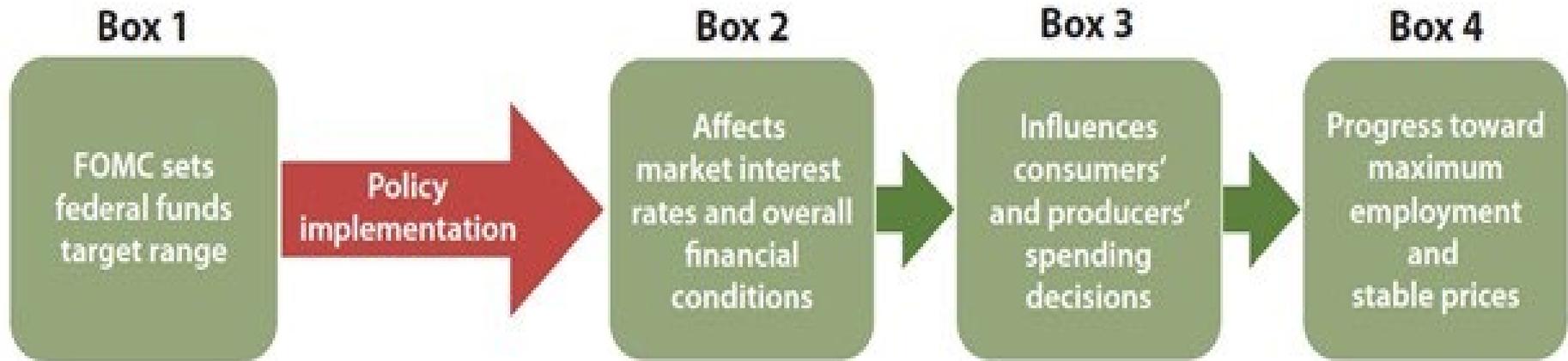


&

Fiscal Policy



Federal Reserve – Monetary Policy



MONETARY POLICY

ECONOMIC EXPANSION



MONETARY POLICY

ECONOMIC CONTRACTION



FISCAL POLICY

ECONOMIC EXPANSION

Government Lowers Taxes



Increase Disposable Income



Demand for Goods Rise



Companies Increase Production



Prices Rise



Inflation Premium Rises



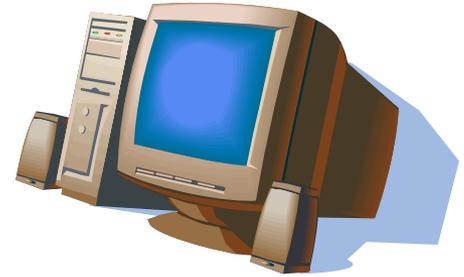
Interest Rates Rise



Bond Prices Fall

TECH BUBBLE

(1999 – 2000)



- **Tech Bubble**

- Internet

- Y2K



- **Over investment in the late Nineties**

- **Beginning in 2000, low demand and over capacity**

- **No pricing power and deflation**

HOW TO ADDRESS OVER CAPACITY?

- Higher demand to support the supply
 - Monetary Policy
 - Fiscal Policy
 - A Need for Goods
- Less capacity
 - Layoffs, plant closures, bankruptcies
 - Could lead to a downward economic spiral



FED FUNDS RATE

A short-term interest rate used by the Federal Open Market Committee (FOMC) to control monetary policy .

12/31/99 – 02/16/23



Interpretation:

SOURCE: Bloomberg L.P.

The FOMC impacts economic growth by changing the Fed Funds Rate (short-term interest rates). Rates were near zero for over eight years after the Financial Crisis – Great Recession. The FED started raising rates in March 2022 and is expected to continue the increases/or keep rates higher throughout 2023.

HOUSING BUBBLE

(2000 – 2005)



- **Fed Lowers Interest Rates**
 - To increase housing demand
 - To battle overcapacity
- **Demand for housing soars**
- **Economic activity increases**
- **Loan demand rises and quality of mortgages fall**



CREDIT CRISIS

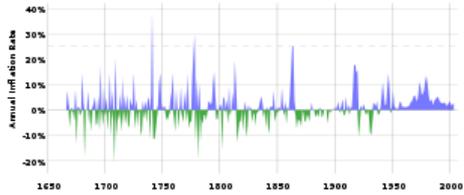
(2008)



- **Banks lose money on mortgages**
 - **Lehman, Bear Stearns go down**
 - **American International Group (AIG) lost \$99.2 billion in 2008. The Federal Reserve stepped in with a \$85 billion loan.**
 - **Government takes over Fannie & Freddie**
- **The world financial system cracks**
- **Worst recession since the Great Depression**
- **Government bails out banks, industries**

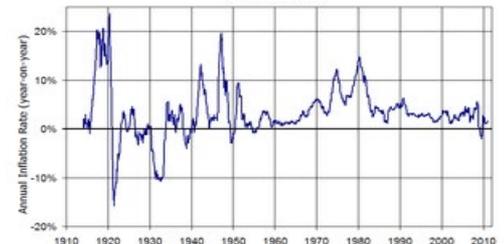
GREAT RECESSION

U.S. Historical Inflation Rate



- **Housing goes into depression**
 - **Oversupply of homes, foreclosures**
 - **Home prices fall, many below mortgage level**
- **Unemployment soars, millions lose jobs**
- **More Government intervention**
- **Housing and employment remain weak today**

US Inflation Rate



COVID-19 Pandemic



- **Created a new chapter in the economic books.**
 - **World-wide demand and supply crash for most goods and services.**
- **The world has changed.**
- **Massive economic imbalances.**
- **Inflation is rising due to supply disruptions.**

Russian Invasion of Ukraine



- **The last thing the world economy needed after the imbalances created by the COVID-19 pandemic.**
- **The war and Russian sanctions are adding to inflationary pressures.**
- **Huge uncertainty and very risky.**
- **What is the end game?**

KEY ECONOMIC ISSUES

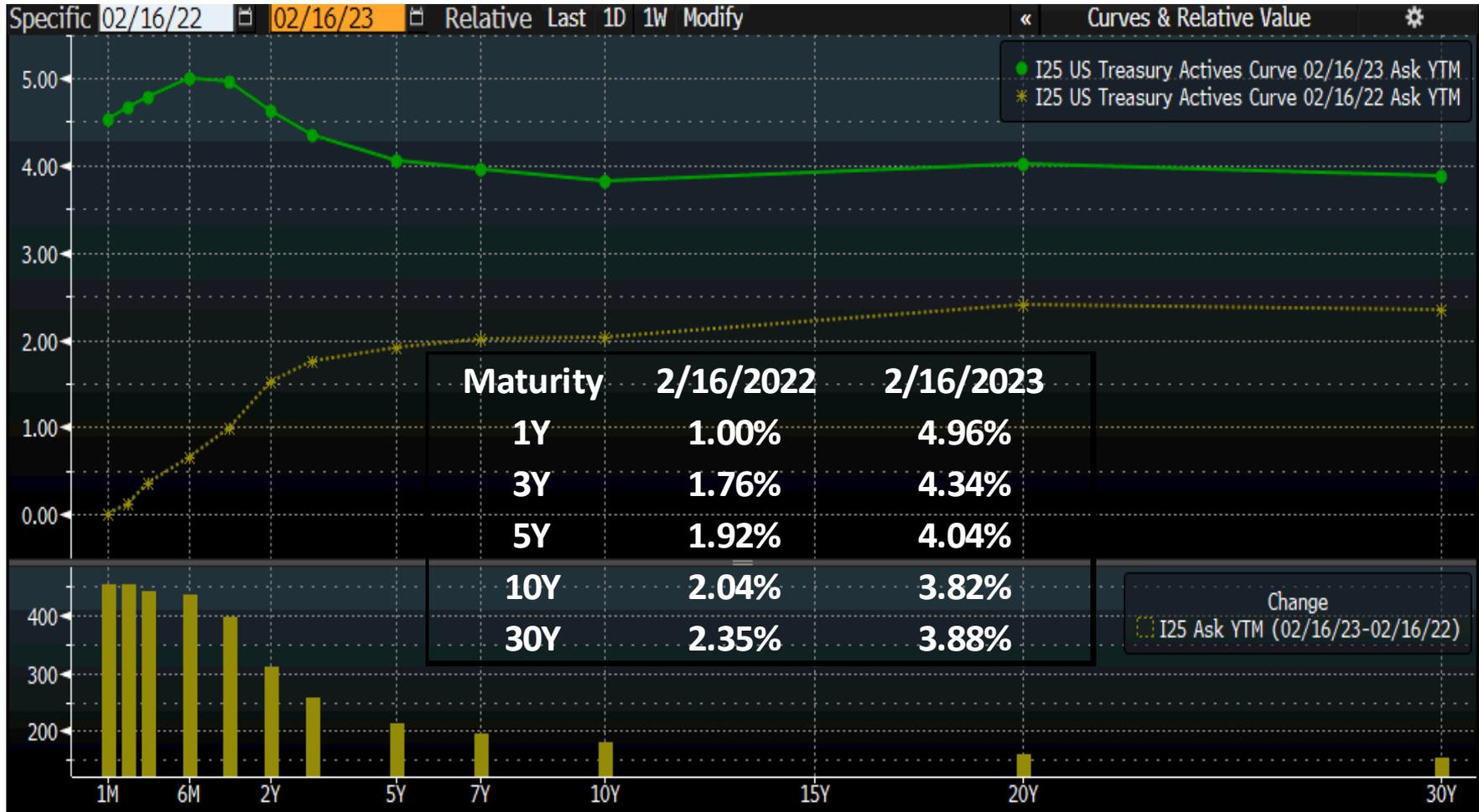
- **What is the state of the pandemic?**
- **Prior to the pandemic, there were deflationary pressures. Supply exceeded demand in many areas.**
- **What happens to the Demand-Supply relationship after the pandemic (short-term and long-term)?**
- **What happens now that the Fed is tightening monetary policy?**
- **What are the inflation expectations (supply chain constraints)?**
- **Is globalization a thing of the past?**
- **What's going to happen in Ukraine?**
- **What is the state of US-China relations?**

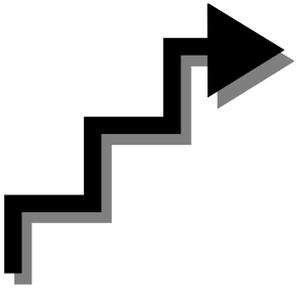
GLOBAL MONETARY STIMULUS HAD CREATED OVERCAPACITY AND EXTENDED ASSET PRICES!

- **Overcapacity leads to deflation (or low inflation), low interest rates and low investment income.**
- **Excess supply (capacity) leads to slower economic growth.**
- **Extended asset valuations (including stocks) is a risk in the short-term.**

US Treasury Yield Curve

02/16/22 – 02/16/23





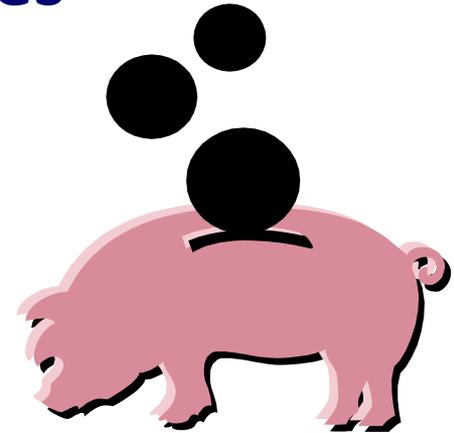
WHERE'S THE YIELD?



US Treasury - 2-Year Maturity	1.5%	4.6%
US Treasury - 5-Year Maturity	1.9%	4.0%
US Treasury - 10-Year Maturity	2.0%	3.8%
Germany - 10-Year Maturity	0.3%	2.5%
France - 10-Year Maturity	0.7%	2.9%
Japan - 10-Year Maturity	0.2%	0.5%

LOW INTEREST RATES

- **High demand for safe investments means higher bond prices, lower interest rates**
 - Slow economic growth
 - Volatile stock market
 - Geopolitical Risks
- **Low inflation, even risk of deflation?**
- **Accommodative Monetary Policy**
- **Globalization (World demand for U. S. Treasuries)**
- **Low (some negative) global interest rates**



LONGER-TERM INTEREST RATES – KEY ECONOMIC INDICATOR

THREE COMPONENTS OF LONG-TERM INTEREST RATES

Inflation Expectations

Risk Premium

Fed Funds Rate

Economic Indicators help assess Inflation Expectations.

UNDERSTANDING ECONOMIC INDICATORS

(Bonds)

Investment Income

Credit Analysis

Interest Rates

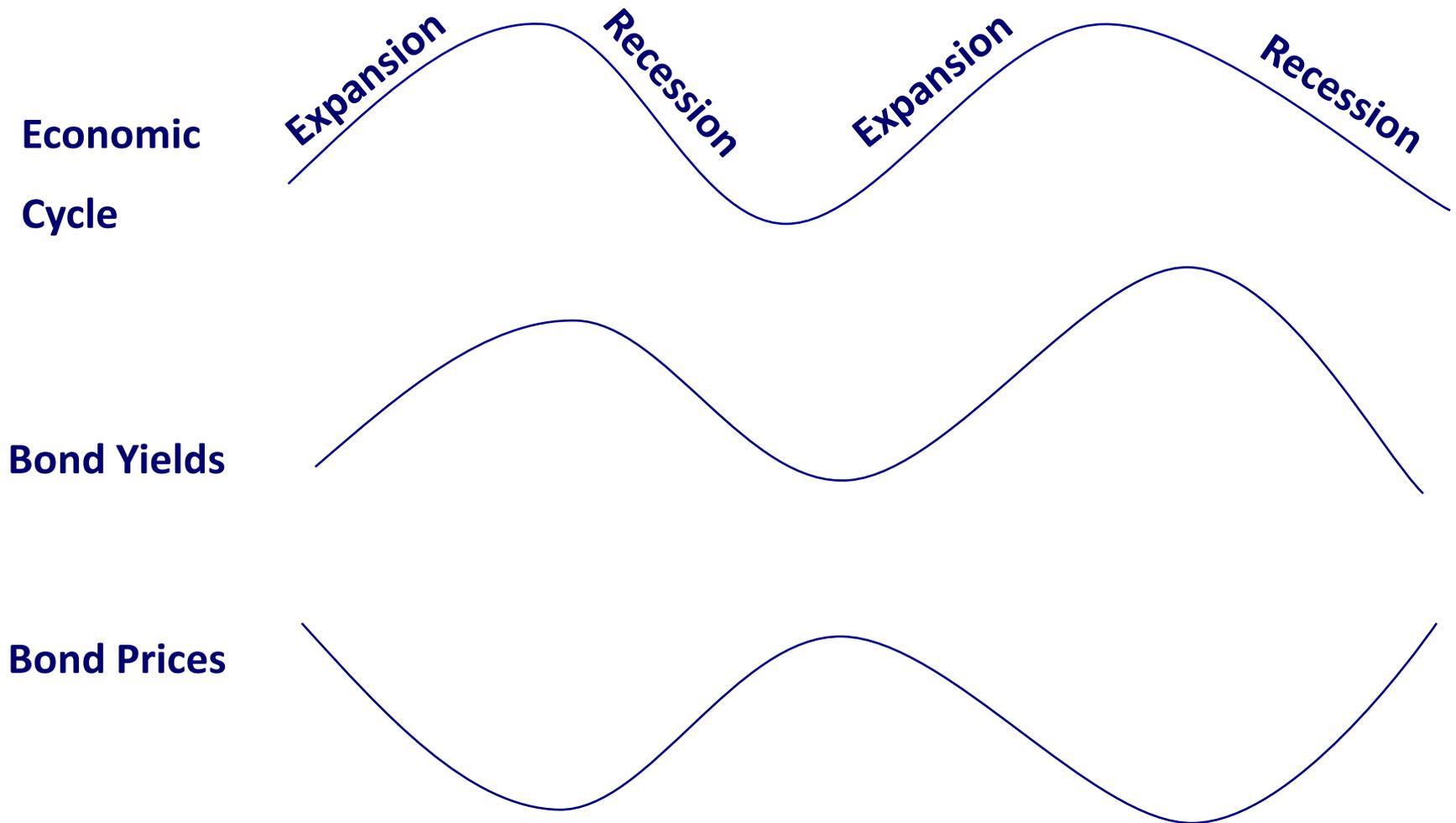
Inflation Expectations

Economic Indicators

UNDERSTANDING ECONOMIC INDICATORS (Stocks)



Economic Cycle/Bond Price - Yield



Bond Prices Fall As CPI Ignites Inflation Fears

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Sale Off in the Bond Market as the Fed Raises Rates for a Seventh Time

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Bond Prices Plummet as Housing Starts Soaring to Record Heights

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**Texas
Municipal
League
Public Funds
Investments
Special Edition**

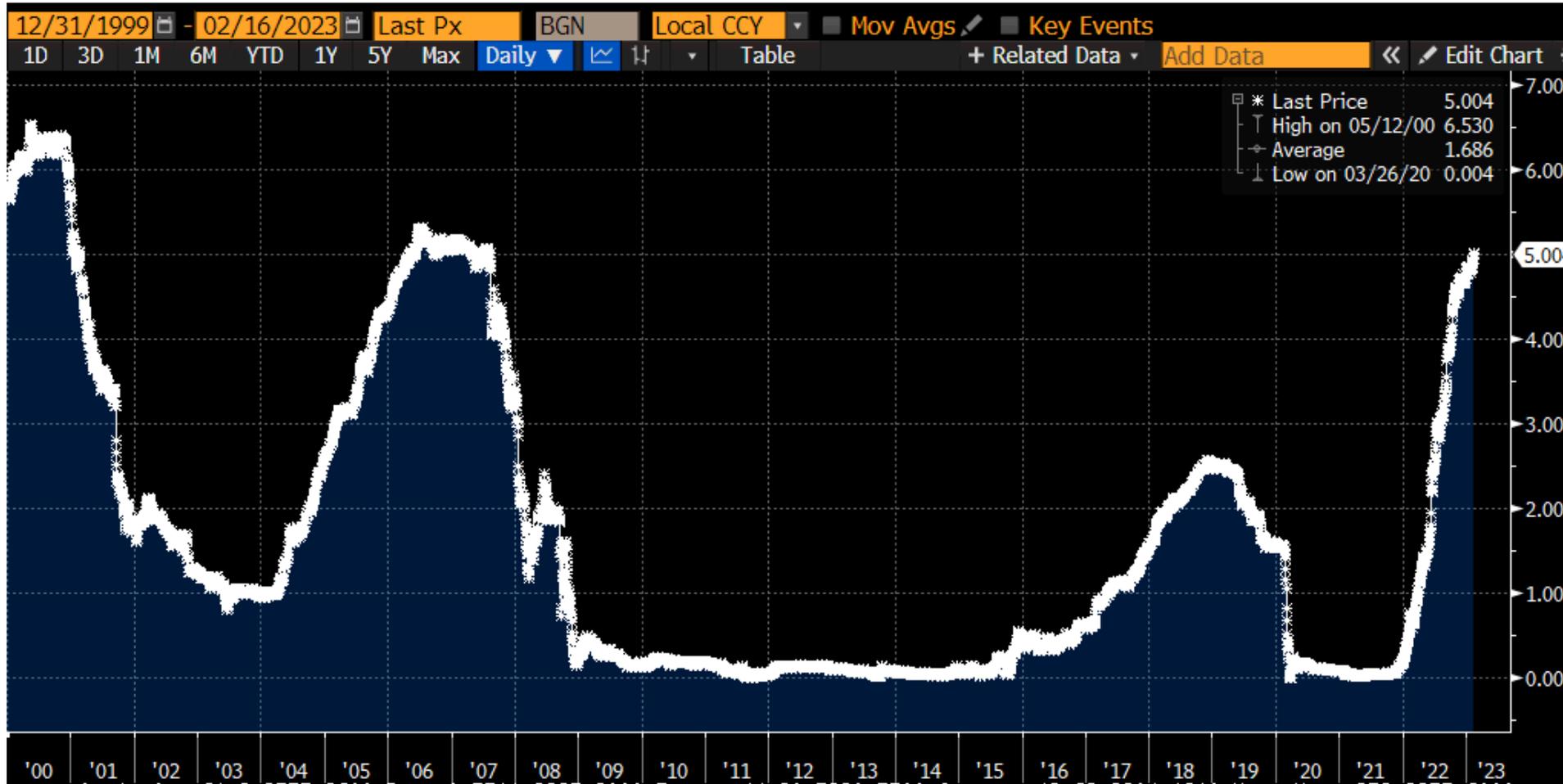
Bond Prices Rise as Manufacturing Cools

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6-MONTH TREASURY BILL YIELD

12/31/99 – 02/16/23



SOURCE: Bloomberg L.P.

Interpretation:

The 6-month T-Bill rate is anchored to the Federal Funds Rate. This is a good indication of what Cities and other municipalities are earning on their investments. Rate has been rising in anticipation of more Fed rate hikes.

10-YEAR TREASURY YIELD

12/31/99 – 02/16/23



Interpretation:

The 10-year yield fell from a high of 6.8% in 01/00 to a low of 0.5% in 08/20. The yield rose due to higher inflation expectations but is down recently on better inflation numbers.

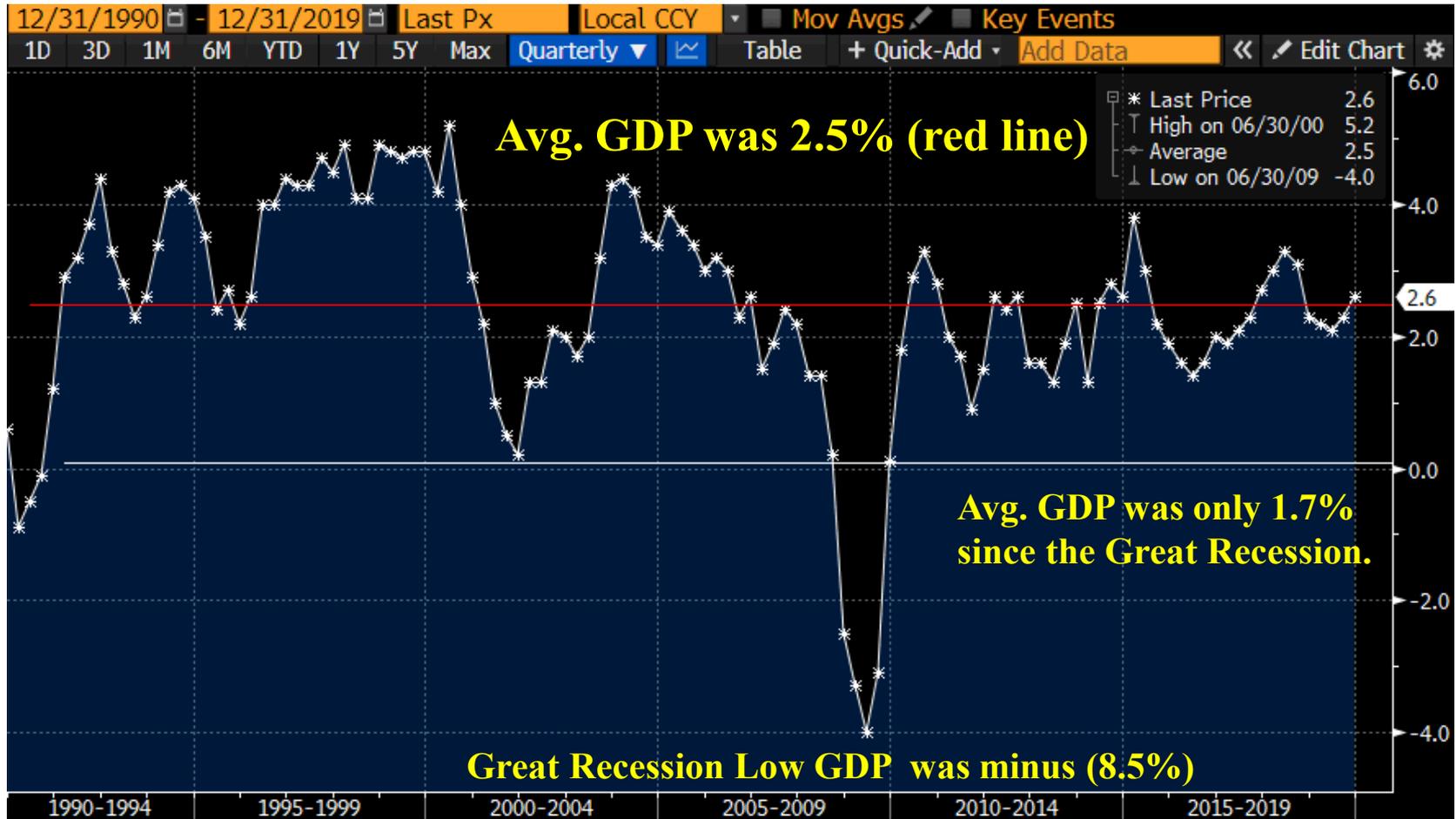
SOURCE: Bloomberg L.P.

GROSS DOMESTIC PRODUCT (GDP)

Prior to Pandemic

12/31/90 – 12/31/2019

A measure reflecting total goods and services produced by the U.S.



Interpretation:

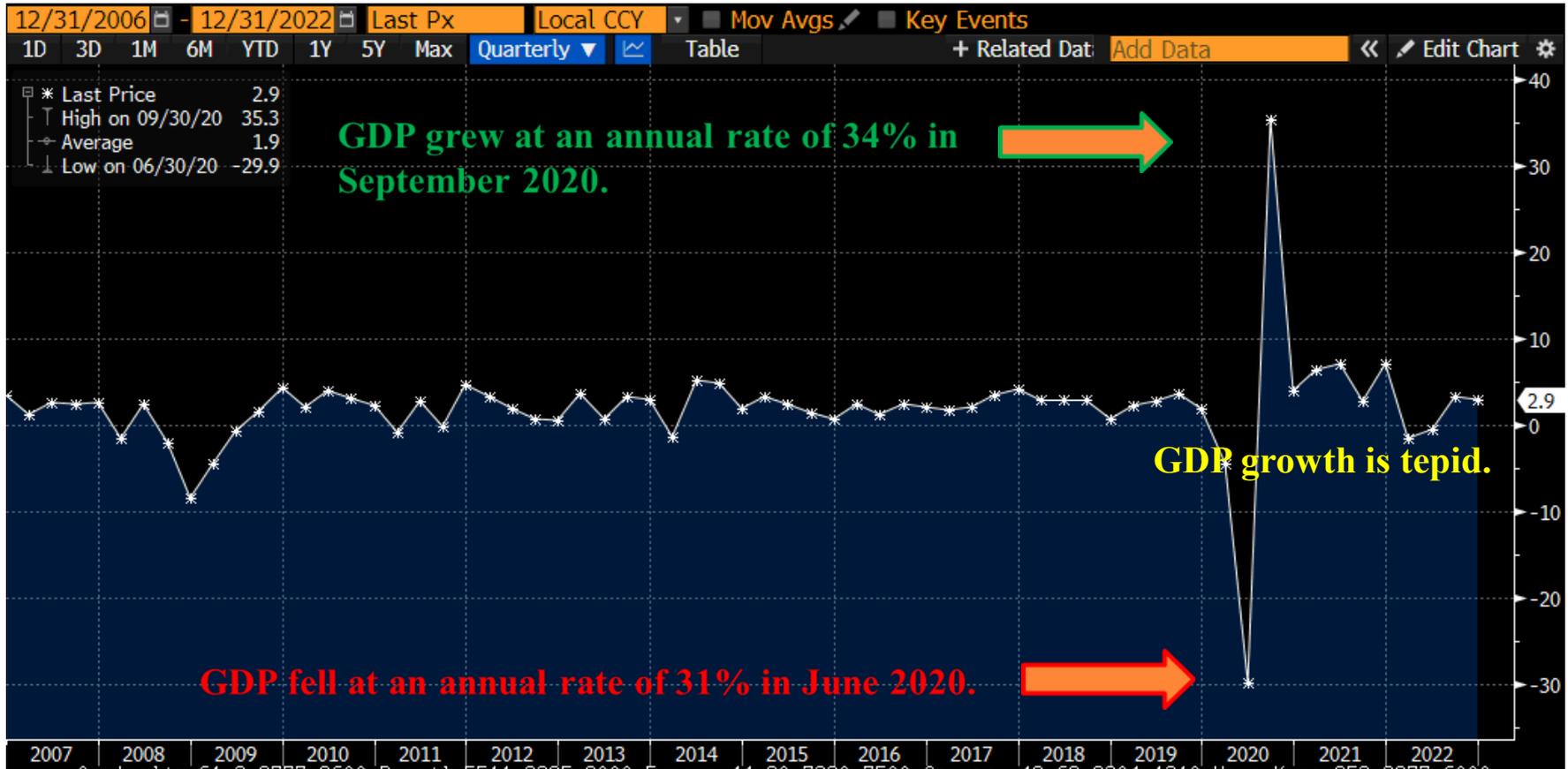
SOURCE: Bloomberg L.P.

GDP went negative after the Tech Bubble and fell hard during the Great Recession (Recession started in Dec. 2007). The average GDP since the Great Recession was a tepid 1.7% going into the pandemic.

GDP Volatility during Pandemic

GDP - A measure reflecting total goods and services produced by the U.S.

12/31/2006 – 12/31/2022



Interpretation:

Supply and demand crashed as the economy shut down due to COVID-19. The vaccines and the opening of the economy caused a historical jump in GDP. **GDP growth is uneven since the reopening.**

SOURCE: Bloomberg L.P.

U.S. UNEMPLOYMENT RATE

The percent of persons in the civilian labor force who are not employed.

12/31/90 – 01/31/23



SOURCE: Bloomberg L.P.

Interpretation:

Unemployment rose significantly after the Tech Bubble and during the Great Recession. Spiked to 15% during the pandemic. A strong rebound after the reopening led to a record low of 3.4% in January 2023.

U. S. NON-FARM PAYROLLS

Prior to Pandemic

Number of new jobs created/lost in the U. S. economy.

01/01/2000 – 12/31/2019



Interpretation:

SOURCE: Bloomberg L.P.

The U. S. economy lost 6.7 million jobs during the 2008 recession, the most in the post war period. The U.S. economy added between 2.1 million and 2.8 million jobs annually between 2011 and 2019 (prior to the pandemic).

U.S. PAYROLLS DURING PANDEMIC

Number of new jobs created/lost in the U. S. economy.

01/01/20 – 01/31/23



SOURCE: Bloomberg L.P.

Interpretation:

The U. S. economy lost 20 million jobs in April 2020. Added 20 million jobs during May 2020 – March 2022. Strong rebound due to the reopening.

INITIAL JOBLESS CLAIMS

Weekly initial jobless claims show the amount of people who have put in claims for unemployment.

01/01/99 – 02/16/23



Interpretation:

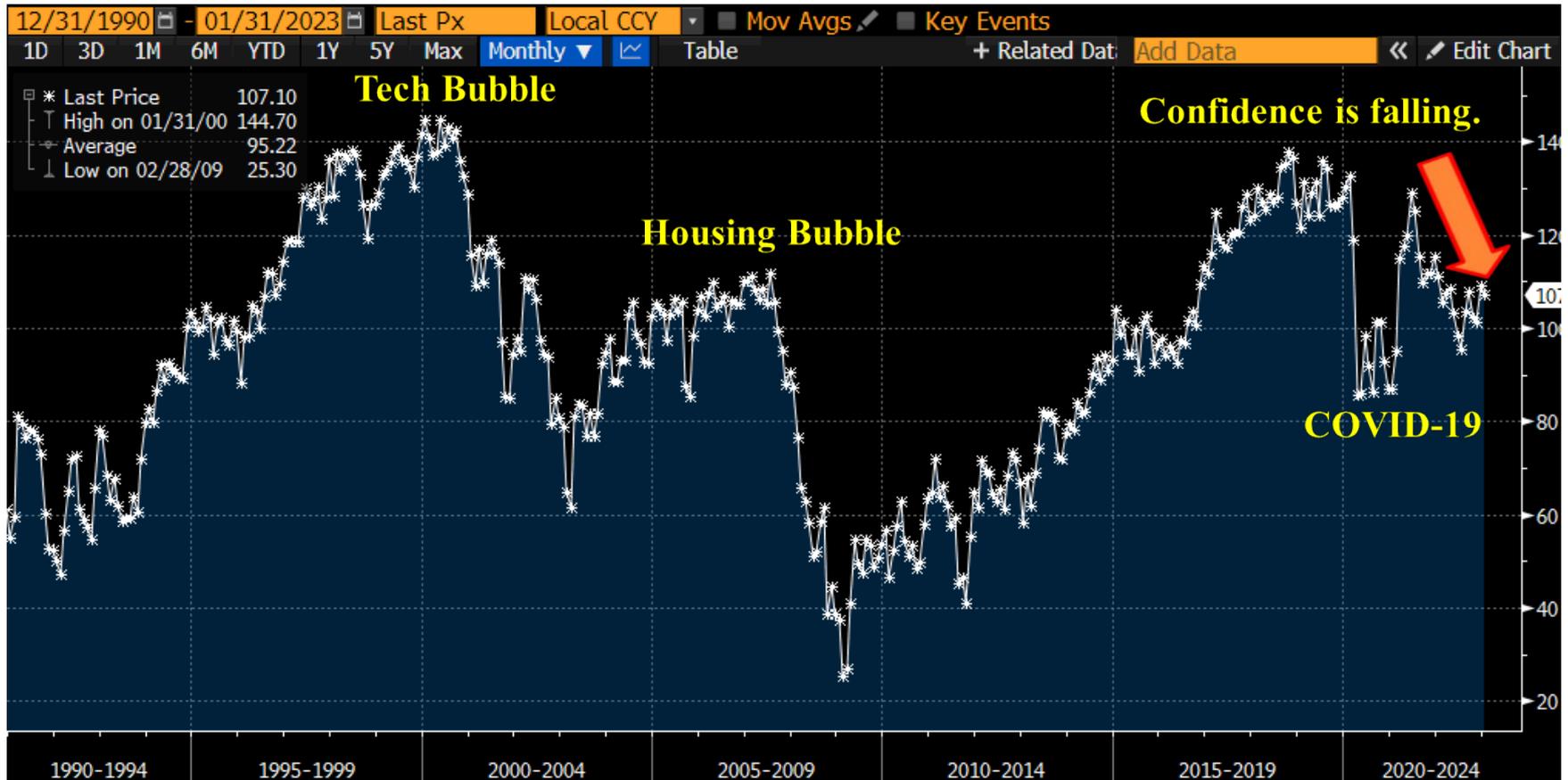
Initial jobless claims surged to 6 million in April 2020. Claims have dropped significantly since the reopening. Jobless claims fell to a pandemic-low of 166,000 for the week ended March 18, 2022. Claims were 194,000 on 2/16/23

SOURCE: Bloomberg L. P.

CONSUMER CONFIDENCE

- Consumer attitudes about the state of the economy. An index level near 100 indicates a possible increase in consumer spending. Consumer spending accounts for two-thirds of economic activity.

12/31/90 – 01/31/23



Interpretation

SOURCE: Bloomberg L.P.

Consumer confidence levels increased during the 90's to record levels. Confidence fell significantly after 1999 but hit a record low in February 2009 due to the financial crisis. Confidence was rising due to a stronger economy but took a hit due to COVID-19. After rebounding due to the reopening, falling due to inflation/war/pandemic.

FREDDIE MAC 30-YEAR MORTGAGE RATE

01/01/99 – 02/16/23



SOURCE: Bloomberg L.P

Interpretation:

The 30-year mortgage rate fell to a record low of 1.75% in August 2020. Mortgage rates are rising due to anticipated FED rate hikes and higher inflation expectations. Rose to 7.1% in Nov. 2022. Rate at 6.3% in Feb. 2023.

NEW HOME SALES

The number of new homes sold each month presented in an estimated annual rate issued by the U. S. Department of Commerce.

12/31/90 – 12/31/22



Interpretation:

In February 2011 new home sales fell to record low. Fed stimulus and low mortgage rates helped housing. Sales rebounded after the reopening, but supply chain disruptions, inflation and higher mortgage rates are impacting the industry. Sales are near a two-year low in late 2022.

SOURCE: Bloomberg L.P.

NEW HOME MONTHLY SUPPLY

Estimates the supply of unsold homes at the monthly sales pace.

12/31/2000 – 12/31/2022



Interpretation:

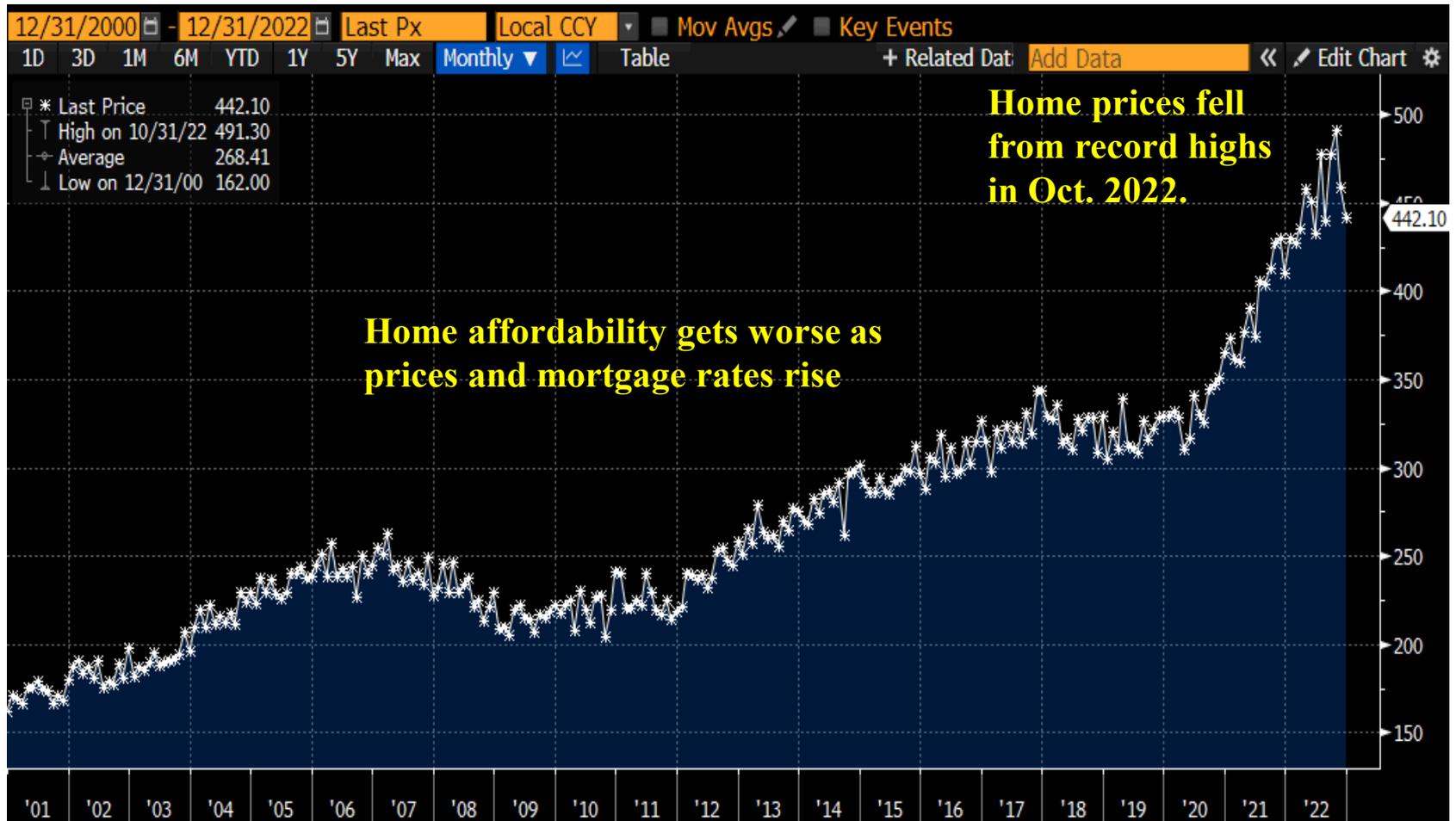
In January 2009, the supply of unsold homes rose to a record high of 12.2 months. Supply of homes fell during the shutdown but picked up after the reopening. Supply has spiked due to lower sales (higher mortgage rates and economic uncertainty).

SOURCE: Bloomberg L.P.

NEW HOME SALES PRICE

The median sales price for new single-family homes.

12/31/2000 – 12/31/2022



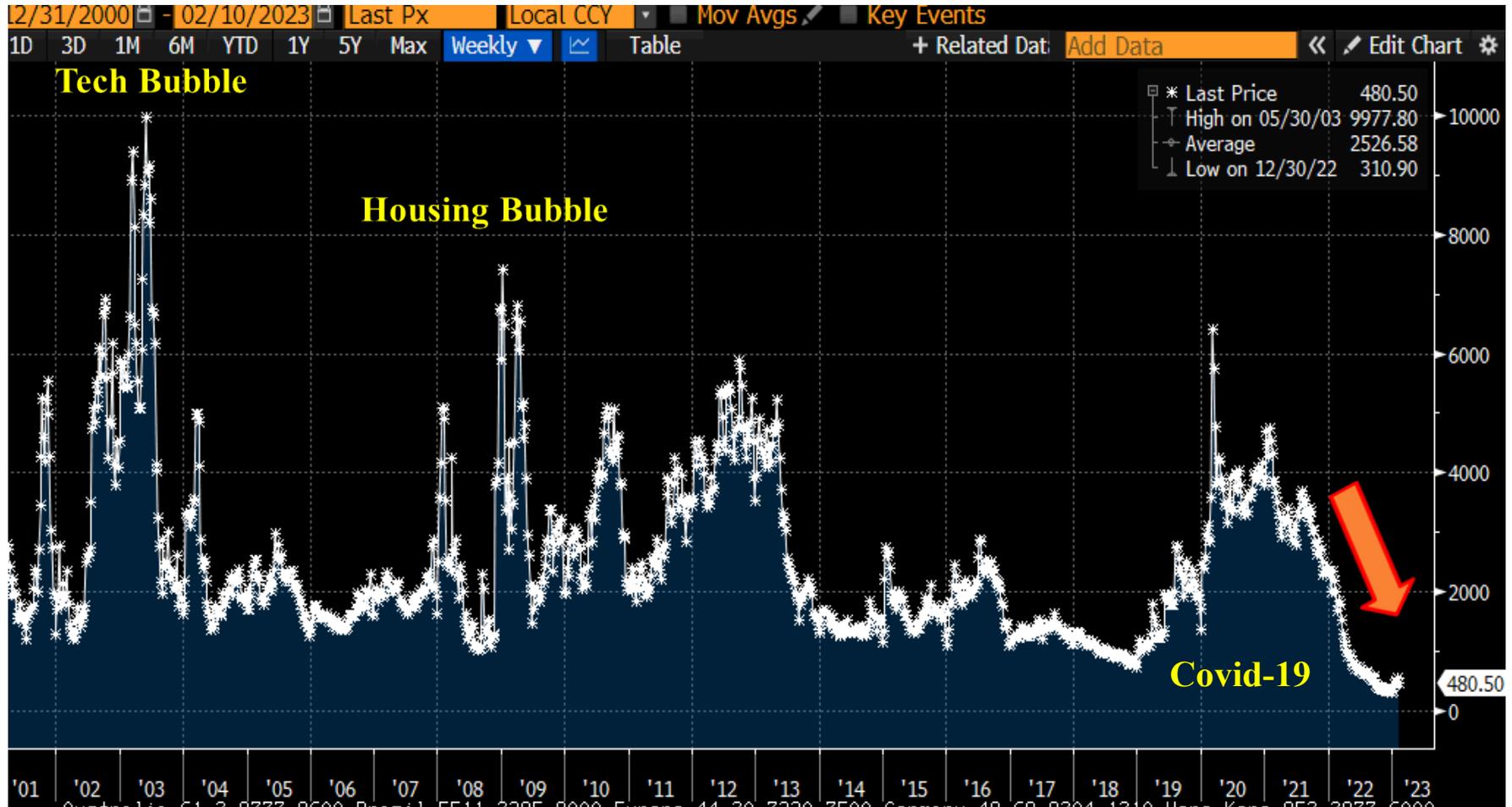
Interpretation:

Home prices fell during the financial crisis but rebounded to record highs right in the middle of the pandemic. Demand for homes, low supply, strong economy and low interest rates support higher prices. Fed rate hikes have slowed the red-hot housing market, but prices remain high.

MORTGAGE BANKERS' ASSOCIATION REFINANCE INDEX

The refinance index covers all mortgage applications to refinance an existing mortgage.

12/31/00 – 11/11/2022



Interpretation:

SOURCE: Bloomberg L.P.

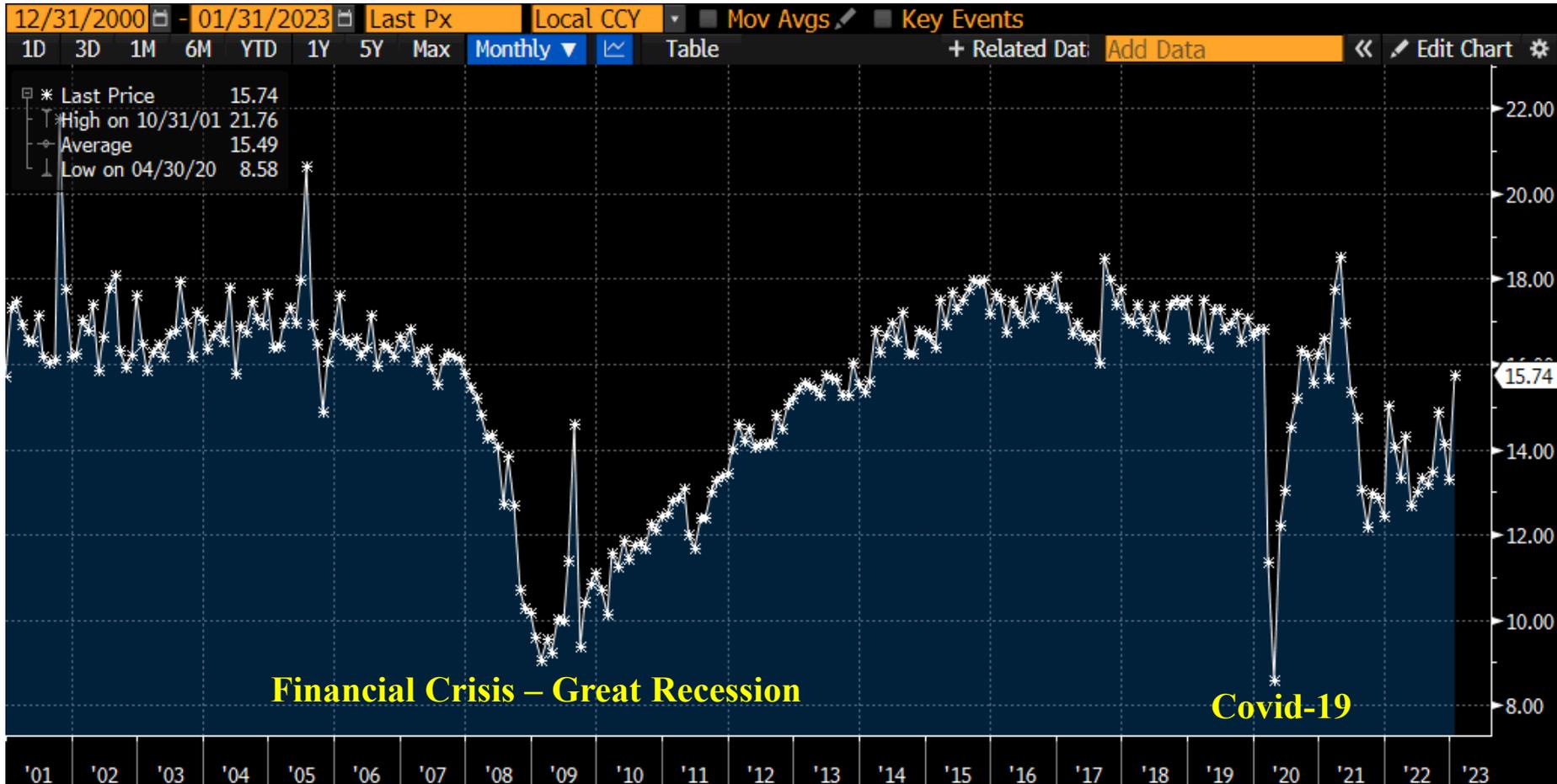
Financial bubbles and crises usually lead to the Fed lowering rates and buying long-term bonds. As rates fall, refinance activity rises. Refinancing is falling fast as mortgage rates rise.

U. S. TOTAL AUTO SALES

(Annualized)

(Units - Millions)

12/31/2000 – 01/31/2023



SOURCE: Bloomberg L.P.

Interpretation:

Sells plummeted to 8.6 million units in April 2020 (beginning of the pandemic). Sales have trended lower recently, and prices are near all-time highs due to low inventories and low production (semiconductor shortage).

CAPACITY UTILIZATION

A measure reflecting the level of output that a plant can maintain within the framework of a realistic work schedule, taking account normal downtime, and assuming sufficient availability of inputs to operate the machinery and equipment in place. A level above 85% indicates a factory operating at full capacity. Analysts view levels above 85% as inflationary. **12/31/90 – 01/31/23**



SOURCE: Bloomberg L.P.

Interpretation:

Plant usage rates plummeted to an 11-year low after 1999. Over capacity was caused by over-investment during the late 90's. Capacity utilization crashed due to the economic recession. Capacity utilization plummeted to 63% at the beginning of the pandemic but rebounded due to reopening.

INDUSTRIAL PRODUCTION

A measure of the output of the nation's factories, mines, and utilities. Changes in Industrial Production are widely followed as a major indicator of strength in the manufacturing sector.

12/31/90 – 01/31/23



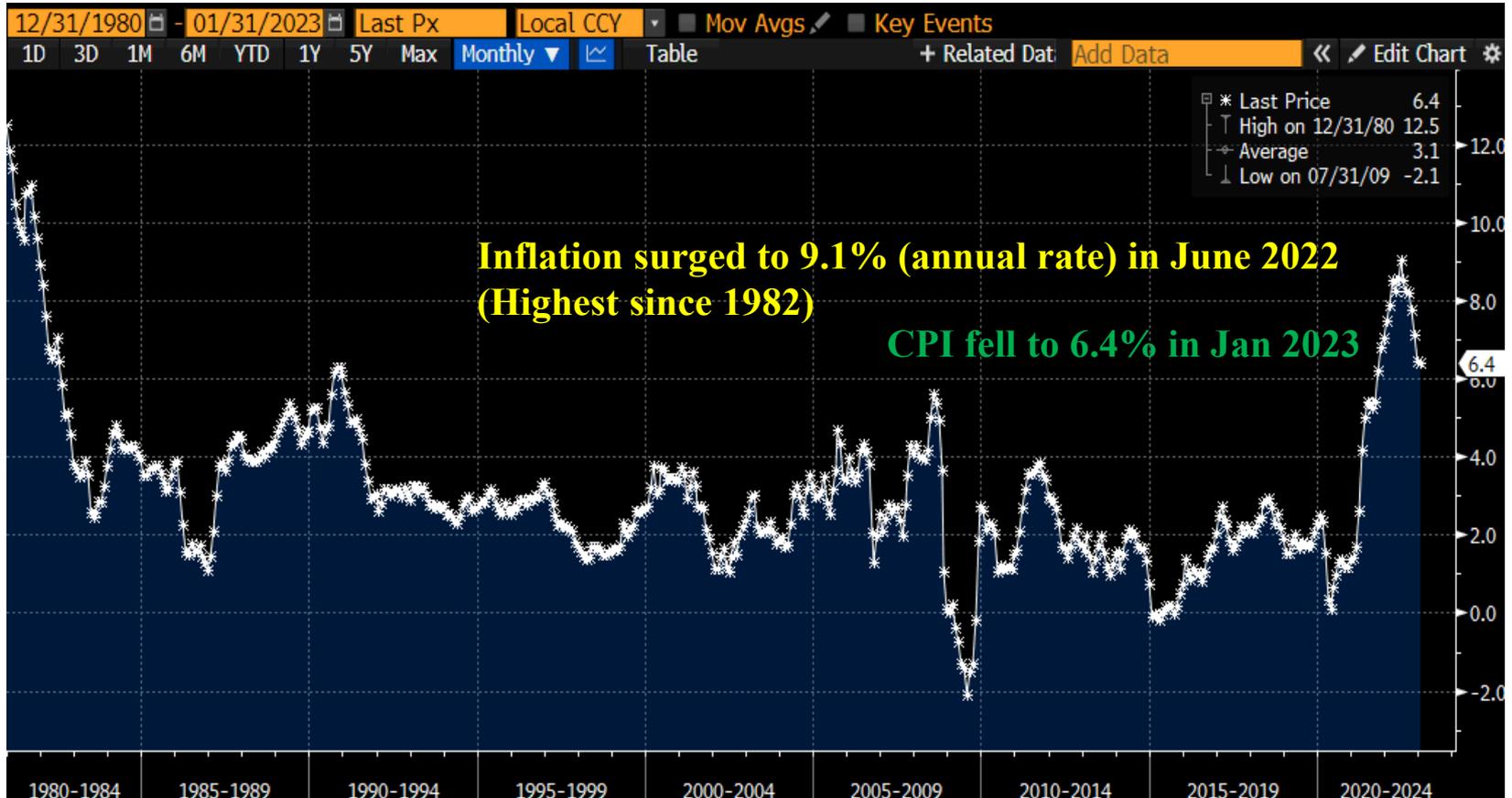
SOURCE: Bloomberg L.P.

Interpretation:

Industrial production fell hard during the pandemic. The reopening has caused rapid economic growth including industrial production. Are higher interest rates slowing demand and production?

CONSUMER PRICE INDEX

A measure of the price level for a basket of goods and services purchased by consumers. Changes in the CPI are widely followed as an indicator of inflation. 12/31/80 – 01/31/23



SOURCE: Bloomberg L.P.

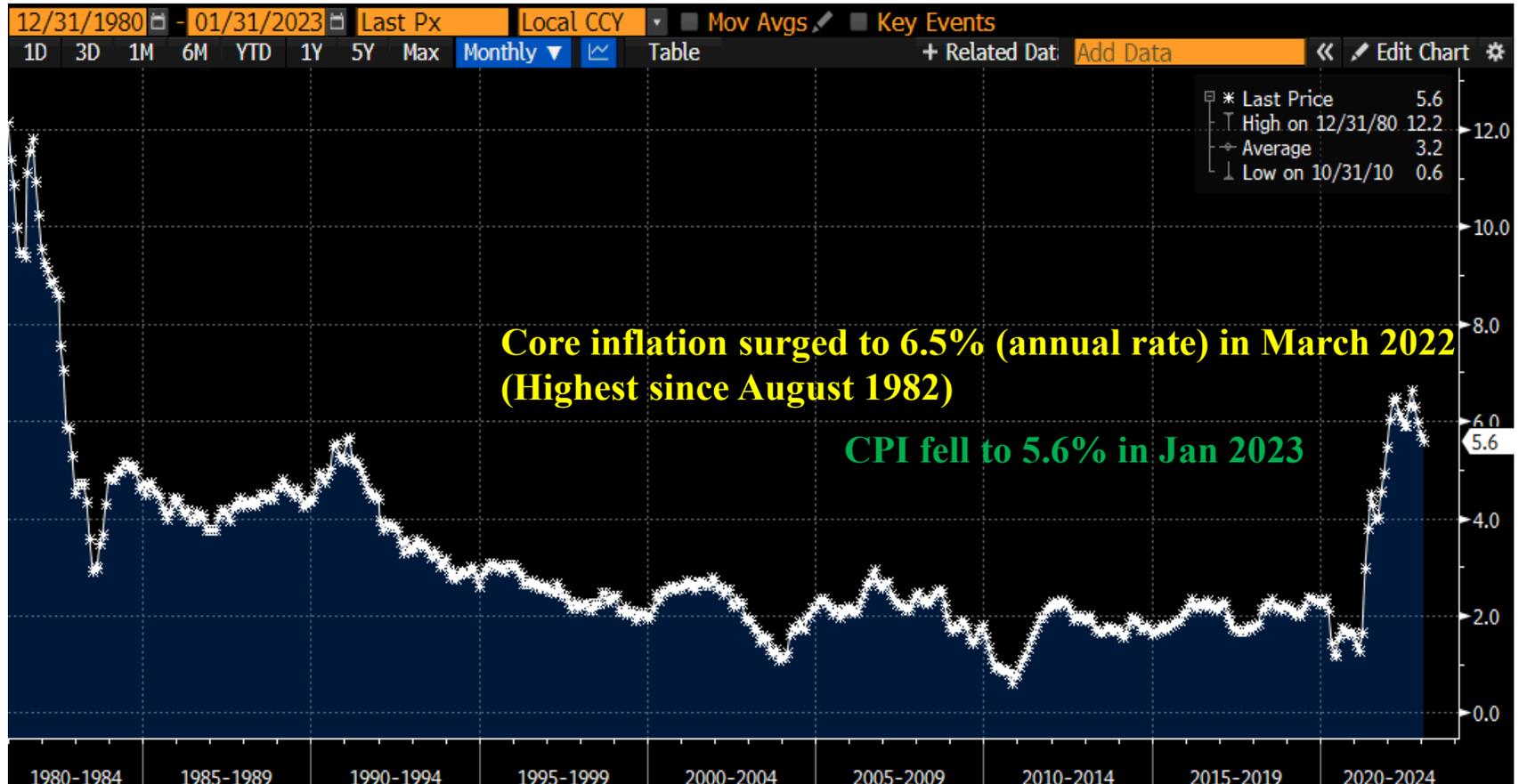
Interpretation:

During the late 1970's and early 1980's, CPI soared to double-digit levels. Since, inflation has declined due to productivity enhancements, competition, and globalization. Inflation has jumped since the reopening due to strong economic growth, shortages/supply chain disruptions and the war. Inflation may be peaking.

CONSUMER PRICE INDEX (CORE)

The CPI Core shows all items less food and energy.

12/31/80 – 01/31/23



SOURCE: Bloomberg L.P.

Interpretation:

The CPI Core rose at an annual rate of 6.4% in February 2022, the highest rate since August 1982. Rapid economic growth, supply disruptions from the reopening, and the Russian invasion of Ukraine are leading to higher inflation. **Inflation may be peaking.**

CRB COMMODITY PRICE INDEX

A measure reflecting commodity prices.

01/01/2000 – 02/16/2023



Interpretation:

SOURCE: Bloomberg L.P.

The index rose to a record high earlier in 2008 as commodity prices surged due to growth in China and Housing Bubble. After tumbling during the great recession (in 2008), commodity prices rose. Prices remain low due to deflation and overcapacity before the pandemic. Rising due to the reopening, supply disruptions, and the war.

CRUDE OIL

Definition: The Price of One Barrel of Oil – (West Texas Intermediate – WTI)

01/01/00 – 02/16/2023



Interpretation:

SOURCE: Bloomberg L.P.

The price of oil rose to \$145 a barrel earlier in 2008 due to strong demand, capacity constraints, and fears of supply disruptions. After falling to \$36 during the Great Recession. Oil tumbled to \$16 a barrel due to COVID-19. Has surged during the reopening and supply disruptions due to the Russian invasion. Oil is down due higher supply and low demand.

U. S. RIG COUNT

Definition: The Baker Hughes Rotary Rig count includes only operating rigs.

01/01/90 – 02/10/23



Interpretation:

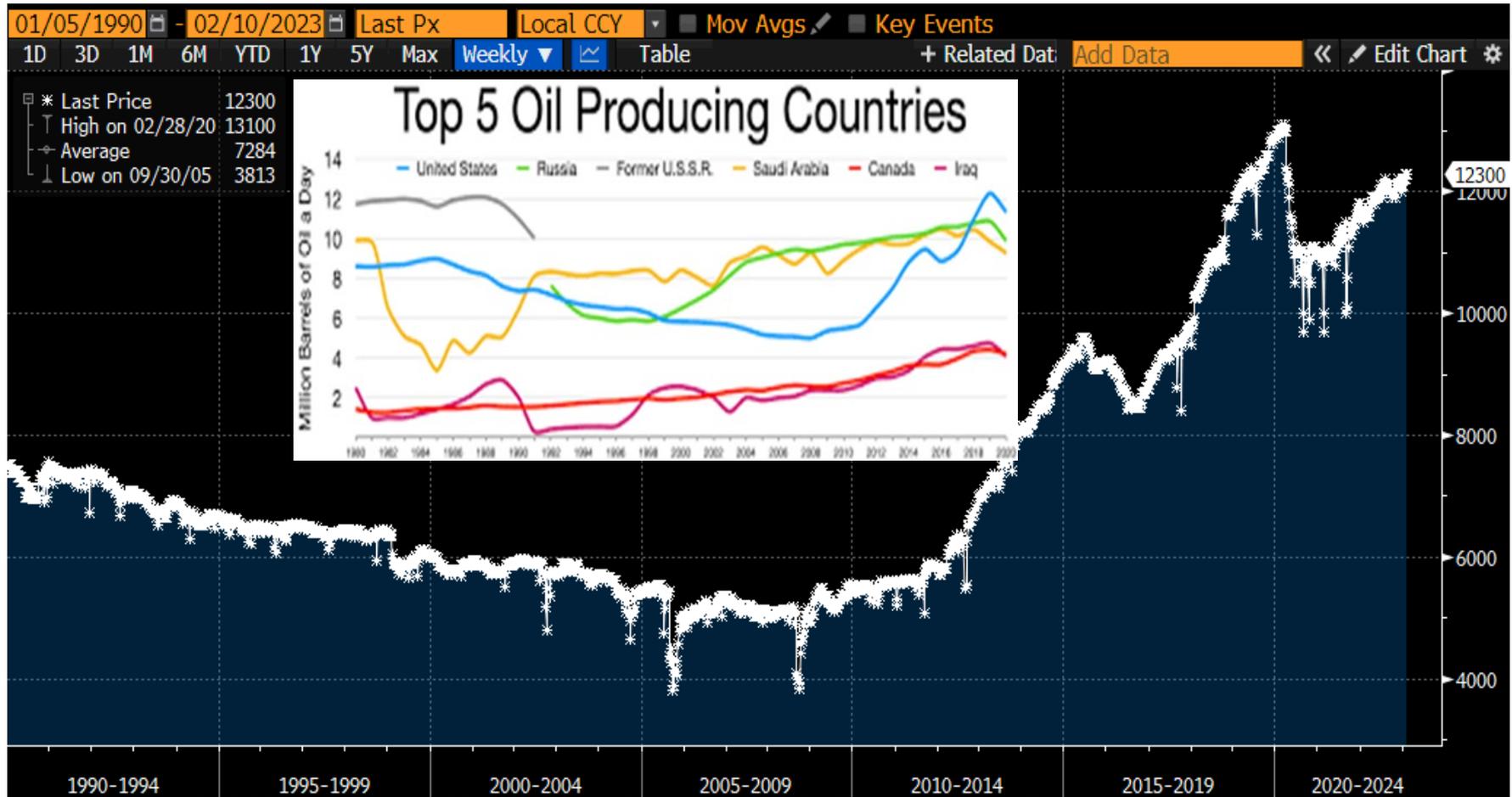
The rig count peaked at 1,609 rigs on October 10, 2014, and was 609 on Feb. 20, 2023.

SOURCE: Bloomberg L.P.

U. S. OIL PRODUCTION

Description: Department of Energy - US oil production - Barrels Per Day

01/05/90 – 02/10/2023



SOURCE: Bloomberg L.P.

Interpretation:

While rig count has decreased, U.S. oil production remains strong. Oil production hit a record of 13.1 million barrels per day in February 2020. After falling due to the pandemic, production has picked up during the reopening. In 2018, the US surpassed Russia to become the largest crude oil producer.

AVERAGE PRICE OF GASOLINE (All Grades)

01/01/07 – 02/15/23



SOURCE: Bloomberg L.P.

Interpretation:

After rising to over \$4 per gallon in July 2008, gasoline fell to \$1.60 in December 2008. The price of gasoline was falling again due to deflationary pressures (supply exceeding demand). The price surged due to the reopening and rising oil prices. Has eased recently.

EUROZONE PURCHASING MANAGERS INDEX (PMI)

01/01/04 – 01/31/23

An indicator for European economic activity reflecting the percentage of purchasing managers that report better business conditions than in the previous month. *A PMI above 50 is expanding.*



SOURCE: Bloomberg L.P.

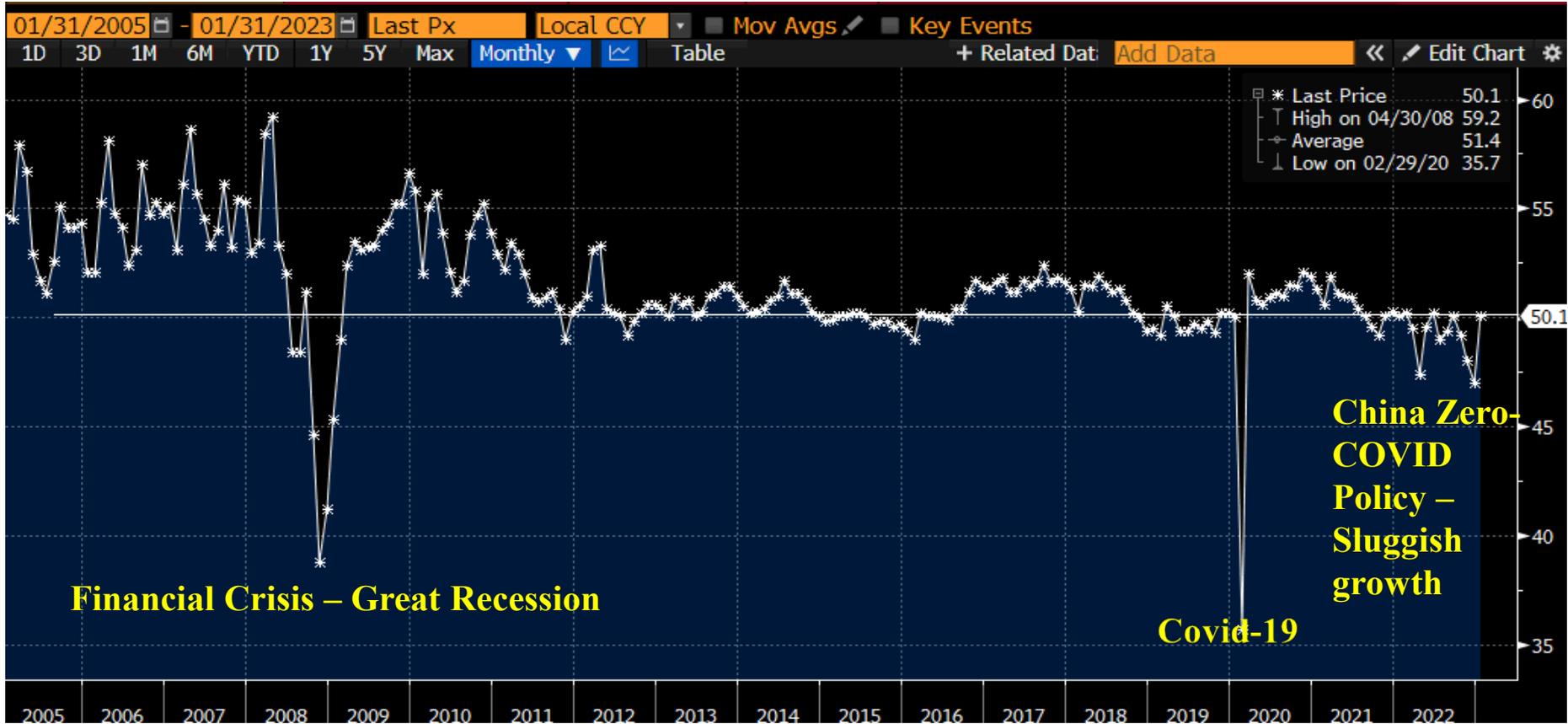
Interpretation:

After the economic shut-down due to pandemic, growth in Europe is rebounding just like the US due to the reopening. A recession in the Eurozone is possible due to rising inflation and supply disruptions due to the Russian invasion.

CHINA MANUFACTURING PURCHASING MANAGERS INDEX (PMI)

01/31/05 – 01/31/23

An indicator for Chinese economic activity reflecting the percentage of purchasing managers that report better business conditions than the previous month. *A PMI above 50 is expanding.*



SOURCE: Bloomberg L.P.

Interpretation:

Economic growth in China is sluggish due to pandemic shutdowns. A Chinese prolonged economic slowdown would hurt the global economy. Recent regulation focused on “national security, technology and monopolies”. Zero-COVID policy is hurting economic activity.

DOW JONES INDUSTRIAL AVERAGE

A price-weighted average of 30 blue-chip stocks (leaders in their industry).

01/01/12 – 02/17/23



SOURCE: Bloomberg L.P.

Interpretation:

The stock market hit a record high on Dec. 31, 2021. Extended asset valuations is another result of easing monetary policy. Dow stocks fell 9% in 2022 due to higher inflation, rising rates, and economic uncertainty. However, not to far from a record high.

Board of Governors of the Federal Reserve System

The Federal Reserve, the central bank of the United States, provides the nation with a safe, flexible, and stable monetary and financial system.

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Recent Developments

- [Testimony by Steven B. Kamin, Director, Division of International Finance, on the European financial situation](#)
- [Speech by Chairman Bernanke on community banking](#)
- [Minutes of the Federal Open Market Committee, January 24-25, 2012](#)
- [Agencies extend deadline to request review under the Independent Foreclosure Review to July 31](#)
- [Federal Reserve Board announces its approval of the notice by Capital One Financial Corporation \("Capital One"\) to acquire ING Bank](#)
- [Federal Reserve Board issues enforcement action](#)
- [The Federal Reserve Board releases orders related to the previously announced monetary sanctions against five banking organizations](#)

Features



[What You Need To Know: Independent Foreclosure Review](#)

If you had a mortgage loan on your primary residence and believe you were financially harmed during the mortgage foreclosure process by any of several servicers in 2009 or 2010, you can request an independent review and potentially receive compensation.



[Current FAQ: What can I do if I believe I was harmed by servicer error during the foreclosure process?](#)

If you had a mortgage loan on your primary residence and believe you were financially harmed during the mortgage foreclosure process in 2009 or 2010, due to an error by any of the servicers listed below, you may be eligible to have your foreclosure reviewed, and to potentially receive compensation.



[Credit and Liquidity Programs and the Balance Sheet](#)

Expands information provided about the policy tools the Federal Reserve has employed to address the financial crisis. Includes a detailed explanation of the Federal Reserve's balance sheet, discussion of Federal Reserve risk-management practices, and information on the types and amounts of collateral being pledged at various lending facilities.

Current FAQs

Informing the public about the Federal Reserve

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Federal Reserve Education

Does the Fed get audited? YES

7/24/11 2:11:11 PM

[INDEPENDENT AUDITOR REPORT](#)
 To the Board of Governors of the Federal Reserve System
 We have audited the accompanying balance sheet as of December 31, 2011, and the related statements of operations, net cash flows, and financial management information for the year ended December 31, 2011, in accordance with the standards of the Institute of Certified Public Accountants (ICPA).

Industrial Production and Capacity Utilization - G.17

Total capacity utilization: percent of capacity, seasonally adjusted. [Customize chart](#)



REGULATORY REFORM

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- [Selected Interest Rates - H.15](#)
- [Factors Affecting Reserve Balances - H.4.1](#)
- [Industrial Production and Capacity Utilization - G.17](#)
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FEDERAL RESERVE press release



Release Date:
Feb. 1, 2023

(Excerpts from Full Release)

Recent indicators point to modest growth in spending and production. Job gains have been robust in recent months, and the unemployment rate has remained low. Inflation has eased somewhat but remains elevated.

Russia's war against Ukraine is causing tremendous human and economic hardship and is contributing to elevated global uncertainty. The Committee is highly attentive to inflation risks.

The Committee seeks to achieve maximum employment and inflation at the rate of 2 percent over the longer run. In support of these goals, the Committee decided to raise the target range for the federal funds rate to 4-1/2 to 4-3/4 percent. The Committee anticipates that ongoing increases in the target range will be appropriate...

Conclusions

- Strong demand in the short-term.
- Supply disruptions will lead to inflation.
- Unprecedentedly monetary and fiscal stimuli **had** caused overcapacity.
- Asset bubbles (extended valuations).
- The Fed will not be able to raise rates much as the risks of a recession/crisis rise.
- Globalization is not dead.
- Deflation will be back.



QUESTIONS

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