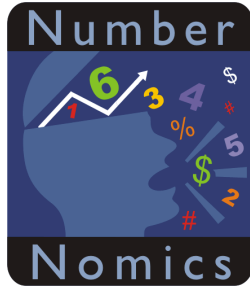


Economics. Explained.

Soft Landing?

Or Worse?

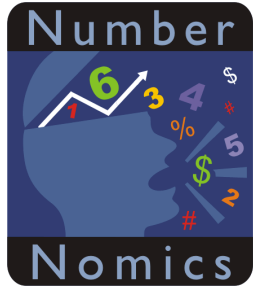
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Economics. Explained.

A World of Uncertainty

1. Consumers who are scared but keep spending.
2. Firms who are scared but won't lay off anyone.
3. Homeowners that refuse to put their home on the market.
4. A resumption of payments on student loans.
5. The UAW strike.
6. A dysfunctional Congress.
7. And now war in the Mideast. Anything becomes possible.



Highlights

- 1. Many expected a recession. What happened?**
- 2. Do interest rates need to go higher?**
- 3. How quickly will the inflation rate decline?**
- 4. When will interest rates begin to fall?**
- 5. How might the war change all this?**
- 6. How much of a problem is Treasury debt?**

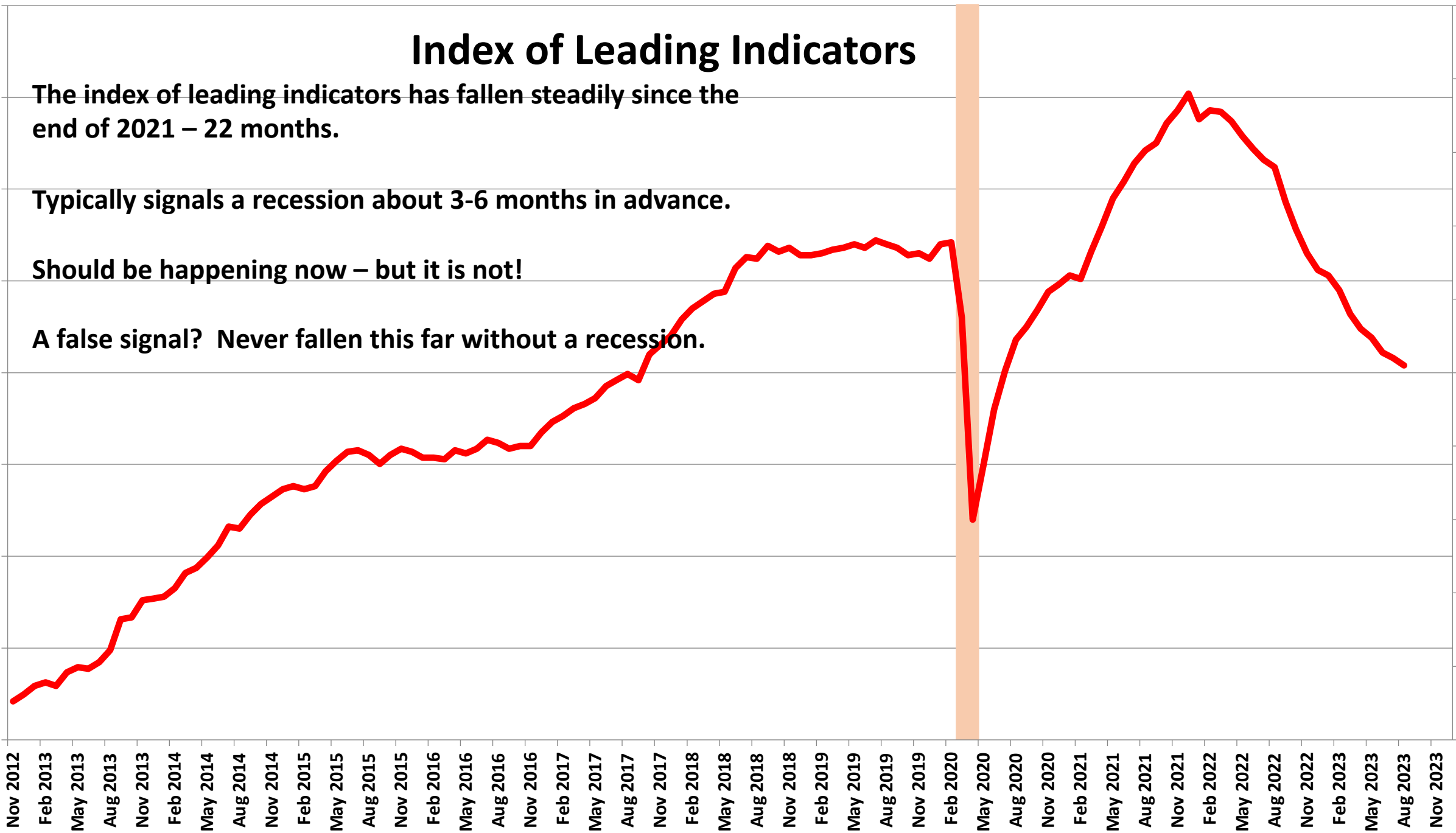
Index of Leading Indicators

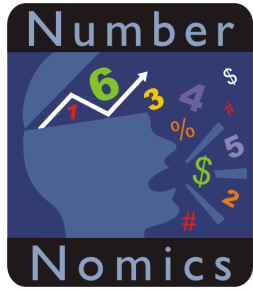
The index of leading indicators has fallen steadily since the end of 2021 – 22 months.

Typically signals a recession about 3-6 months in advance.

Should be happening now – but it is not!

A false signal? Never fallen this far without a recession.

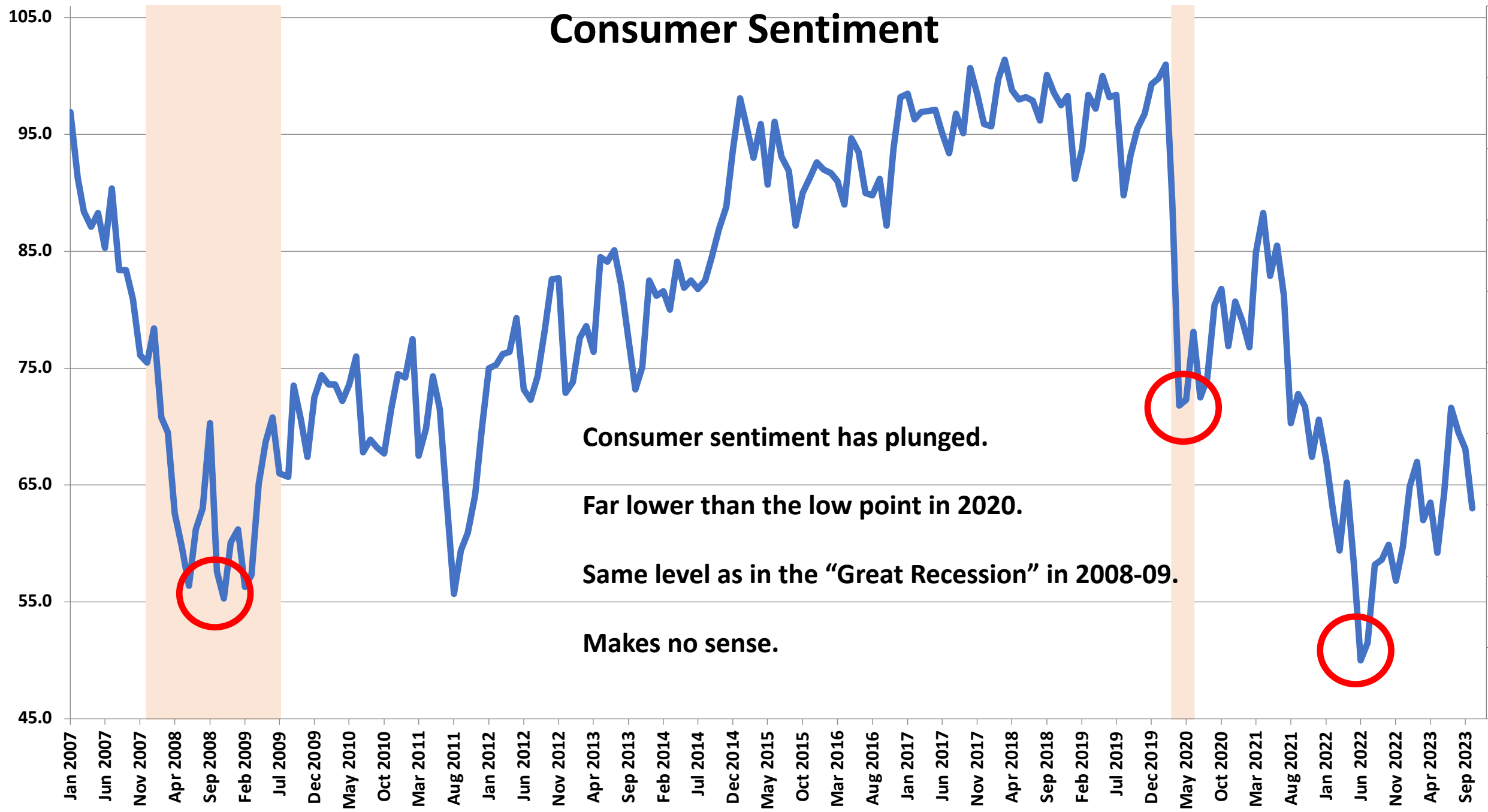




Economics. Explained.

Consumption Spending.

Consumer Sentiment



Consumer sentiment has plunged.

Far lower than the low point in 2020.

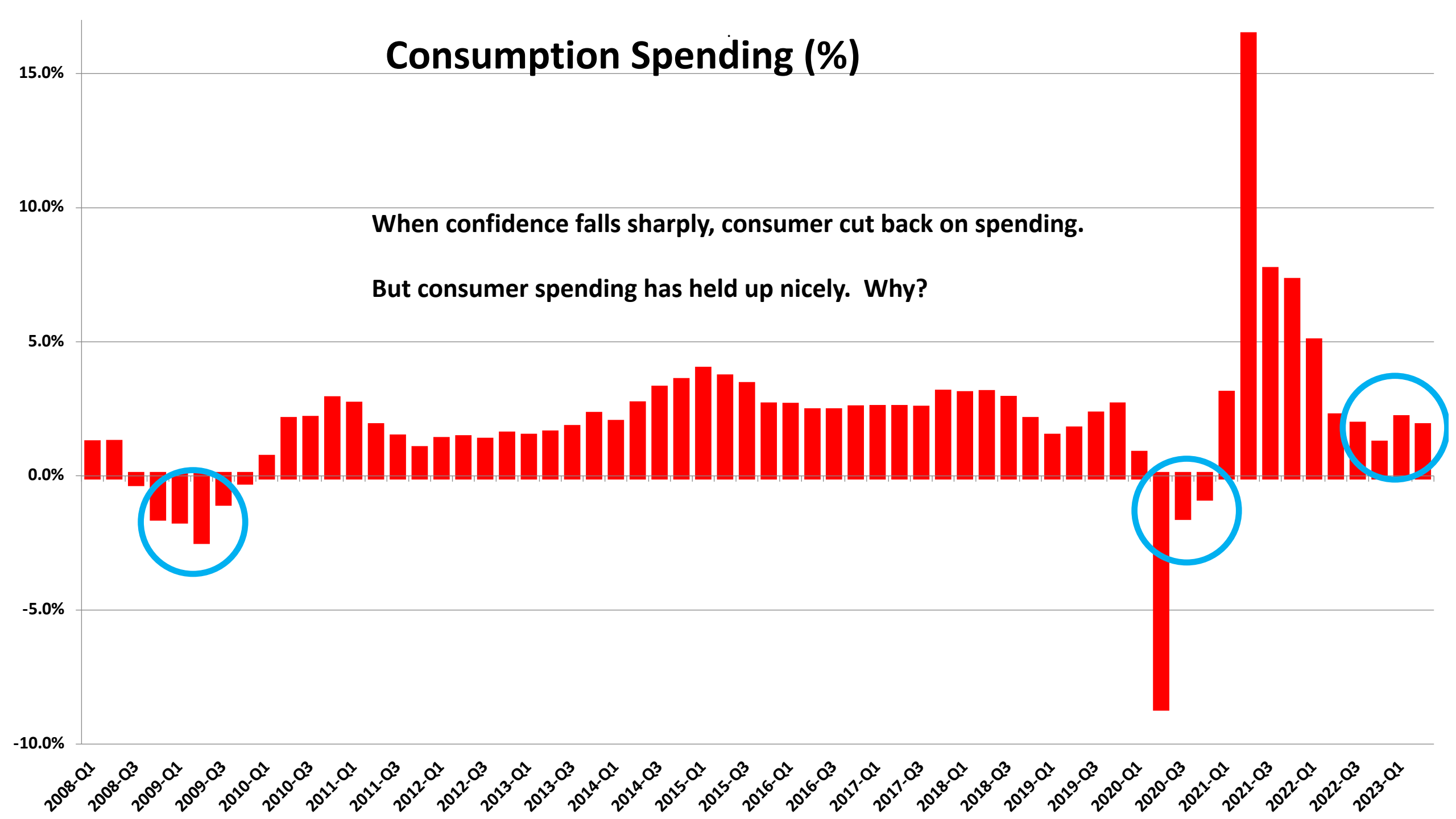
Same level as in the "Great Recession" in 2008-09.

Makes no sense.

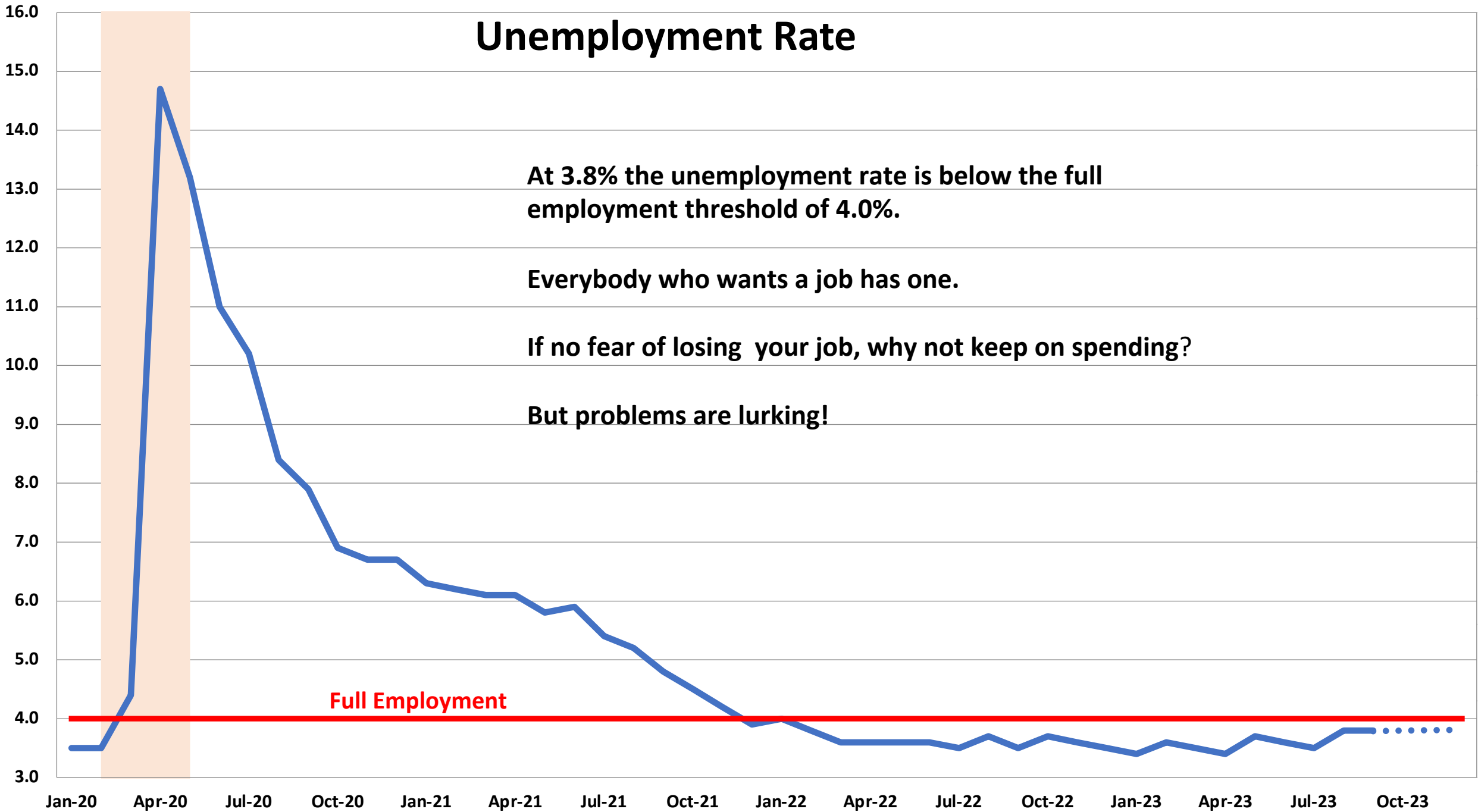
Consumption Spending (%)

When confidence falls sharply, consumer cut back on spending.

But consumer spending has held up nicely. Why?



Unemployment Rate



At 3.8% the unemployment rate is below the full employment threshold of 4.0%.

Everybody who wants a job has one.

If no fear of losing your job, why not keep on spending?

But problems are lurking!

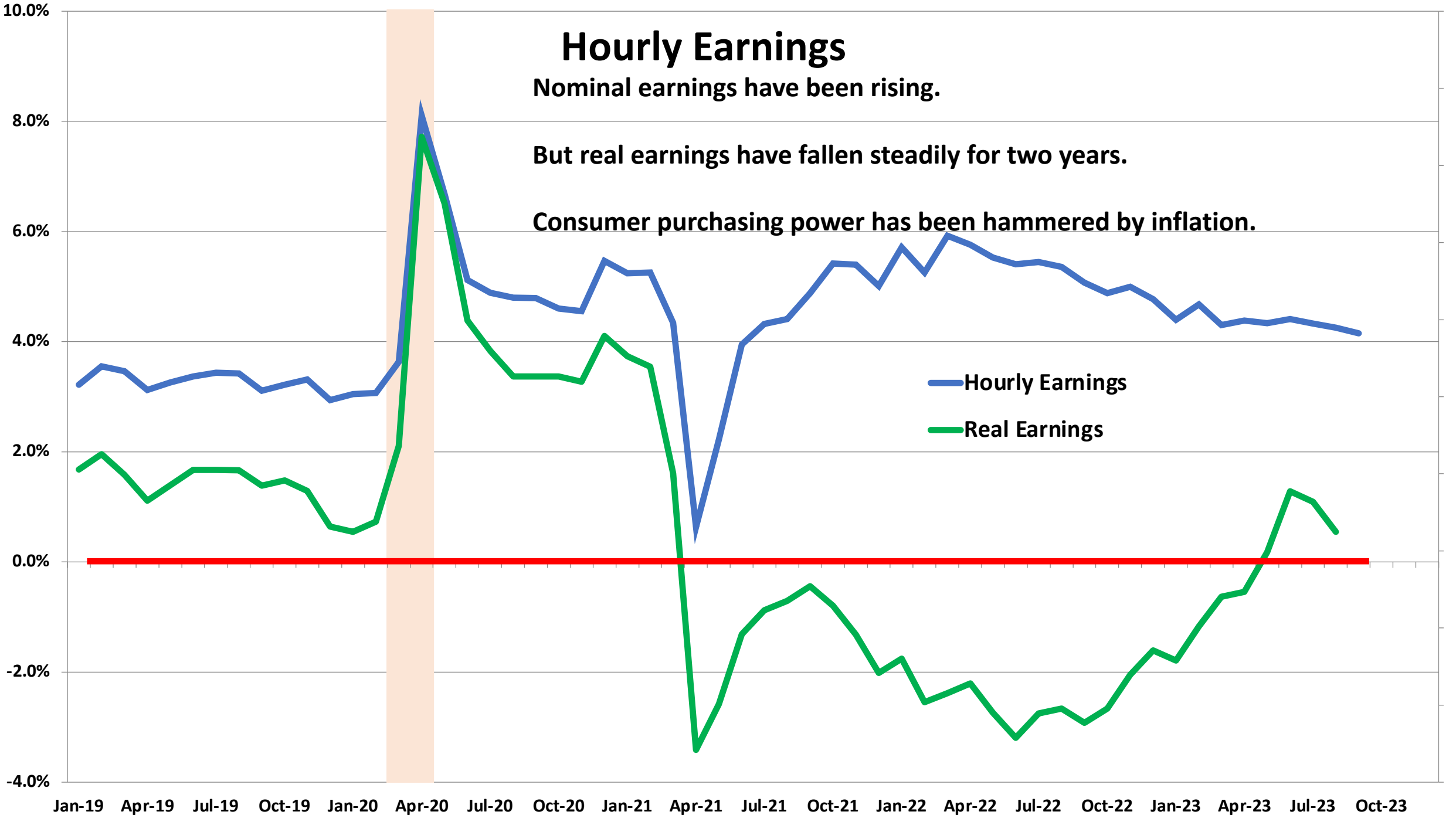
Full Employment

Hourly Earnings

Nominal earnings have been rising.

But real earnings have fallen steadily for two years.

Consumer purchasing power has been hammered by inflation.

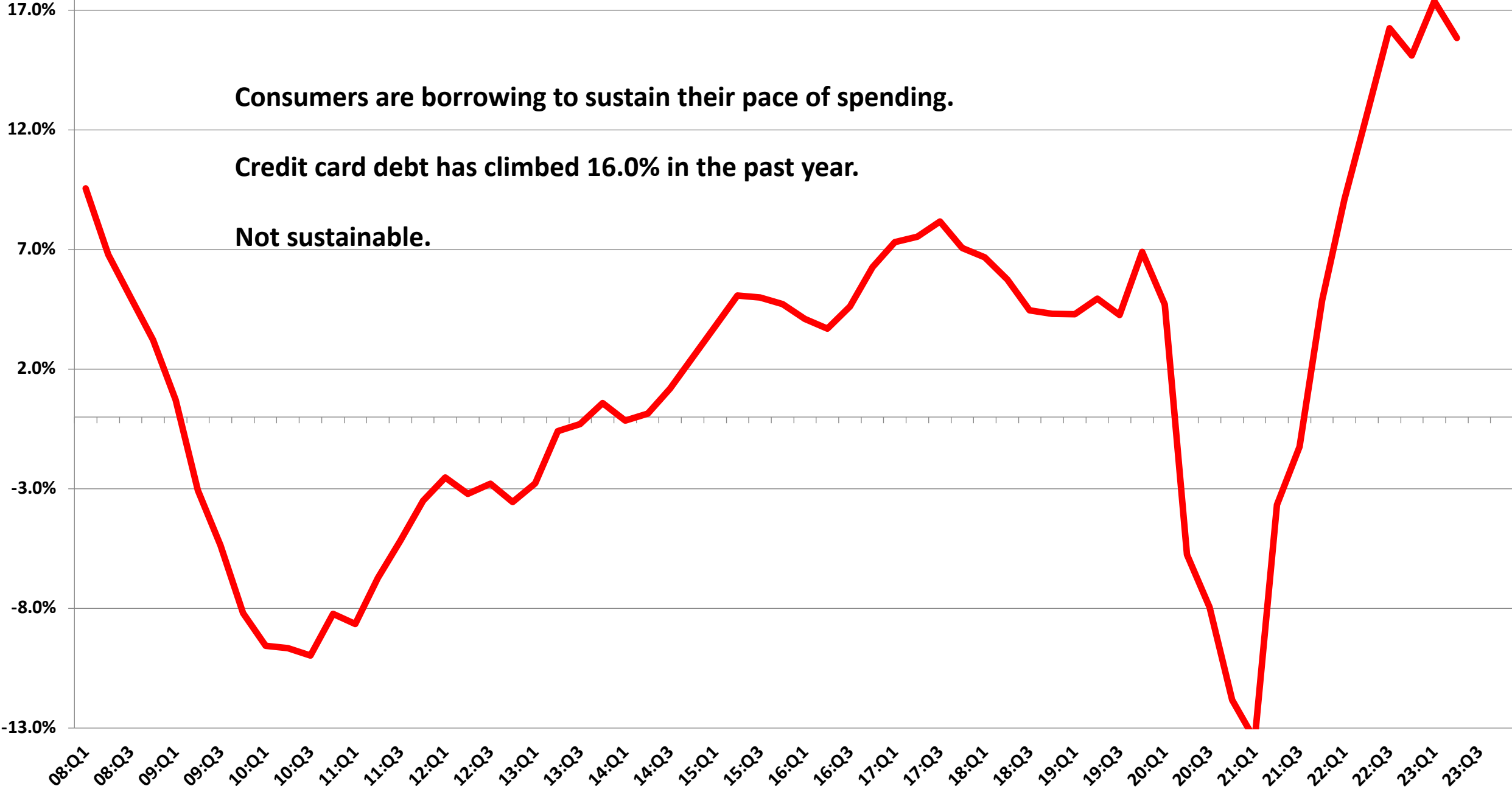


Credit Cards (% year ago)

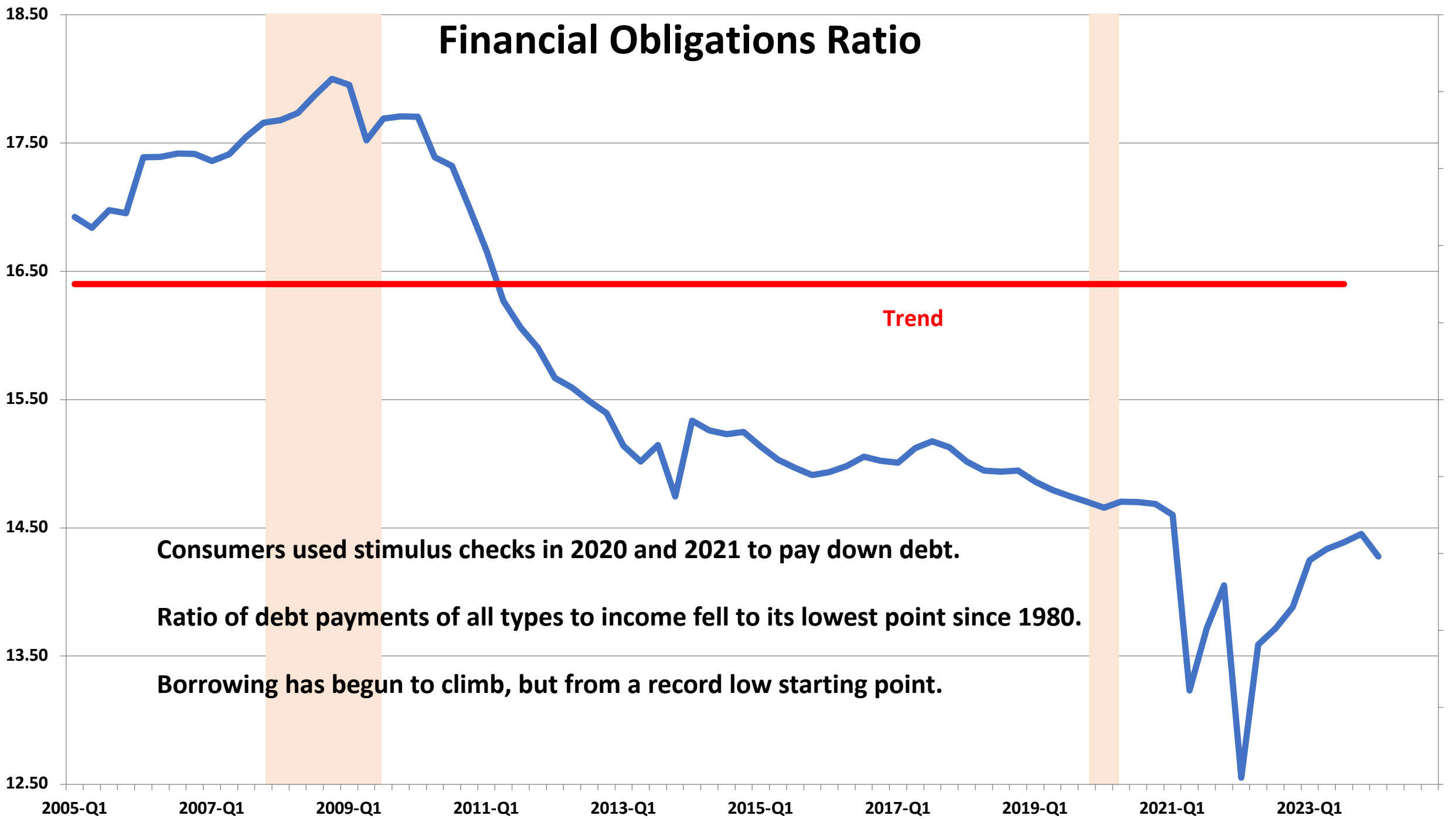
Consumers are borrowing to sustain their pace of spending.

Credit card debt has climbed 16.0% in the past year.

Not sustainable.



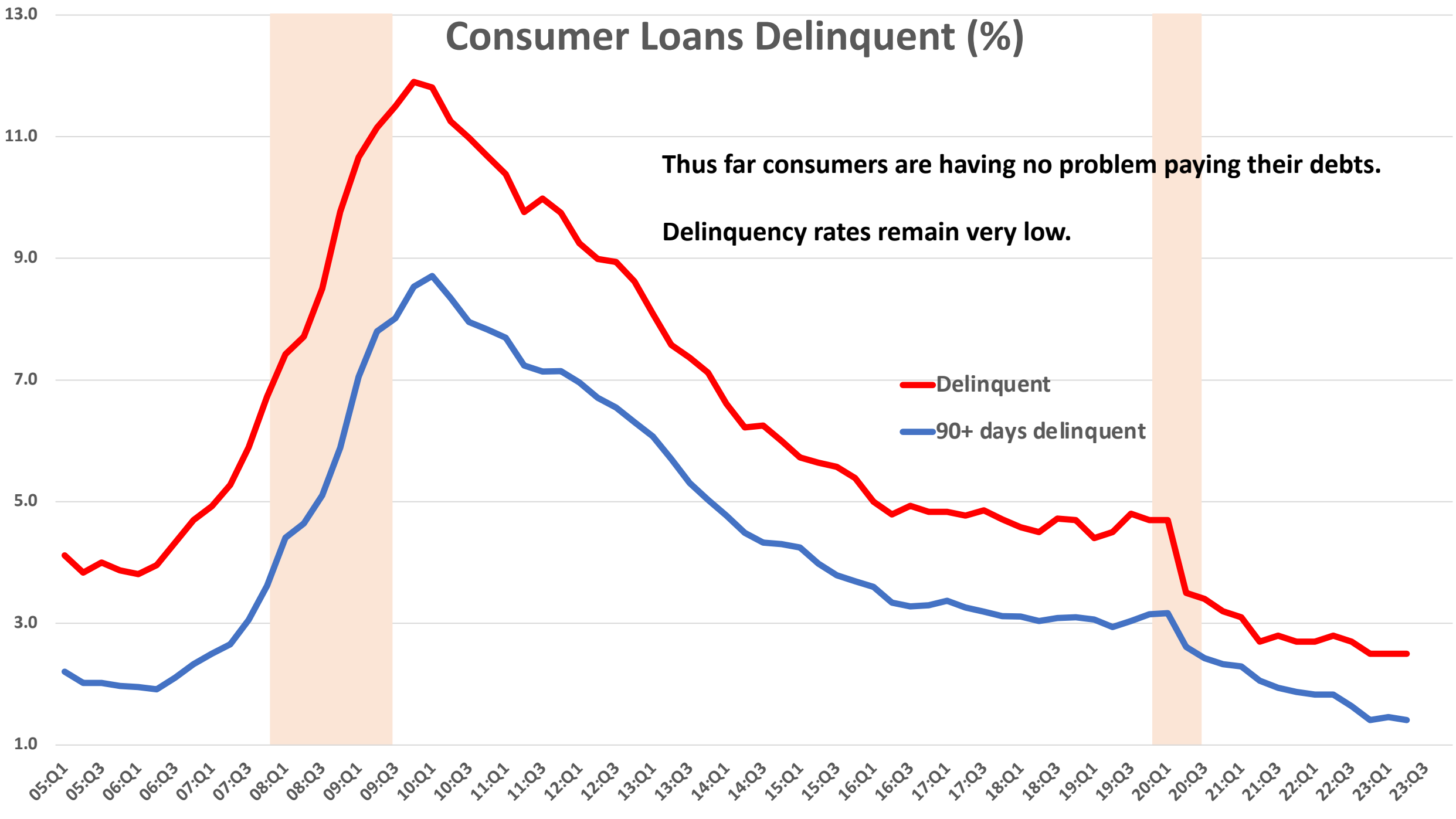
Financial Obligations Ratio



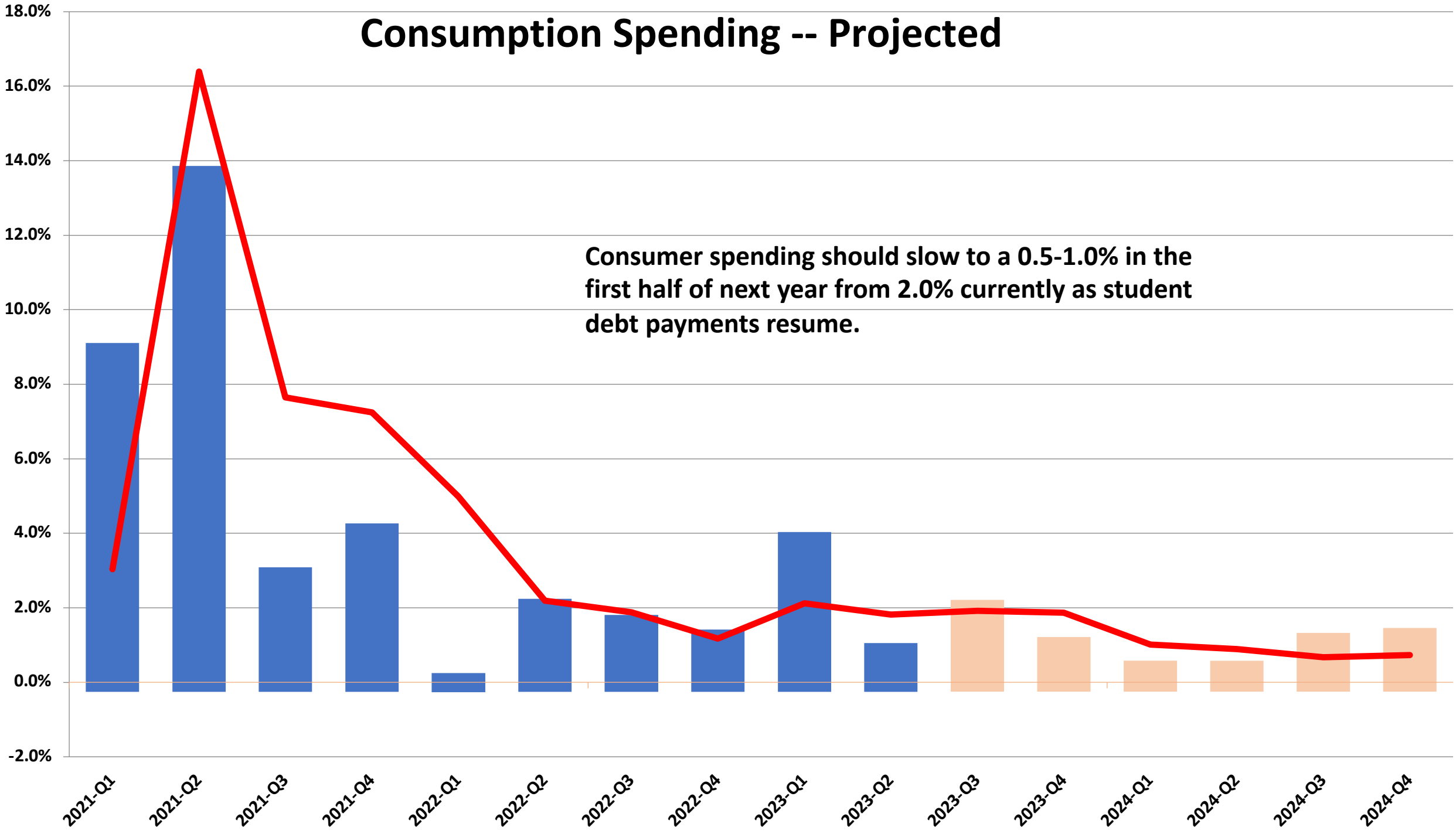
Trend

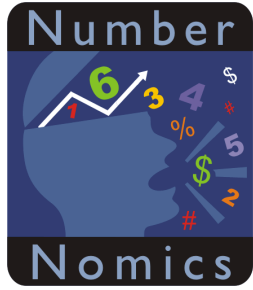
Consumers used stimulus checks in 2020 and 2021 to pay down debt.
Ratio of debt payments of all types to income fell to its lowest point since 1980.
Borrowing has begun to climb, but from a record low starting point.

Consumer Loans Delinquent (%)



Consumption Spending -- Projected

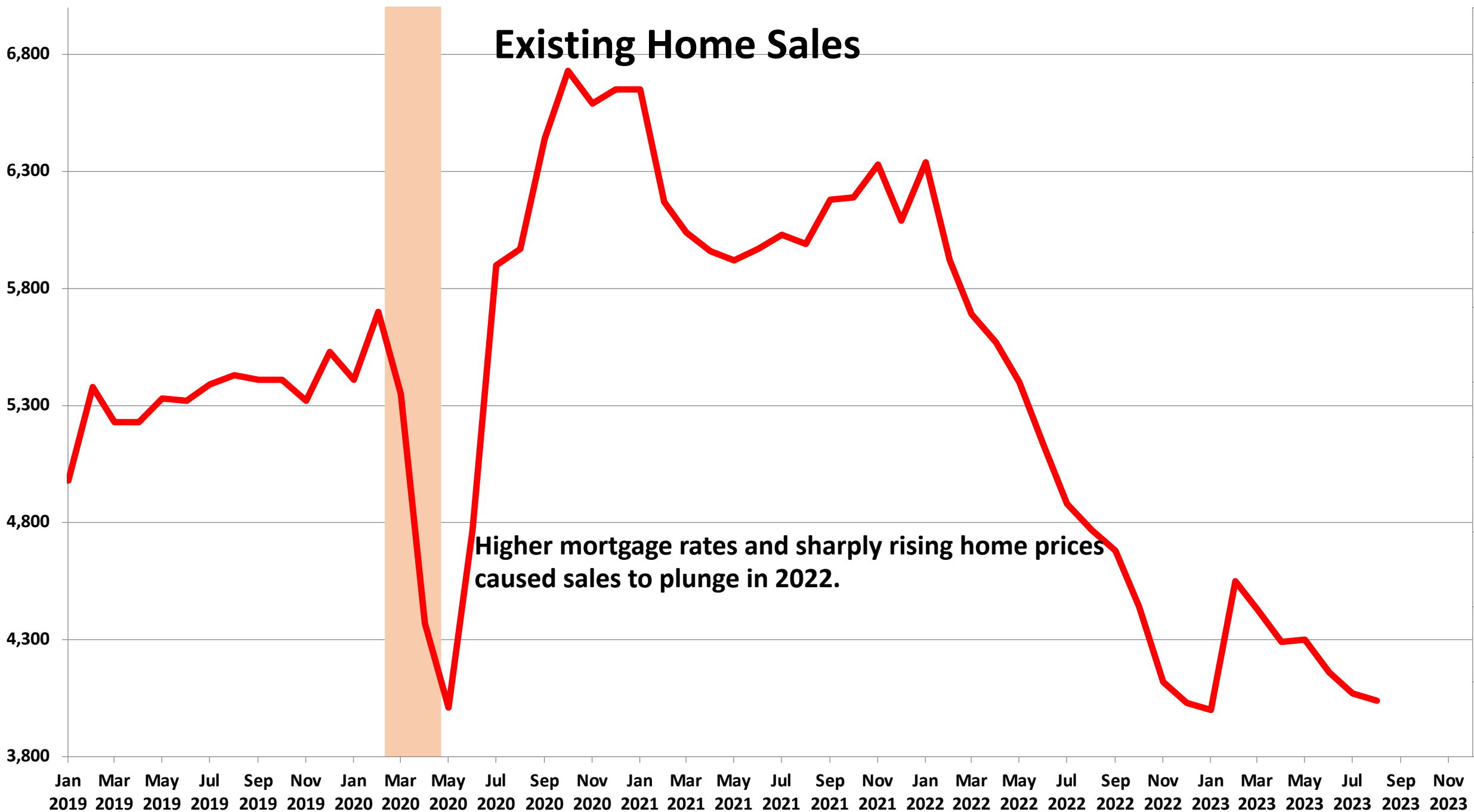




Economics. Explained.

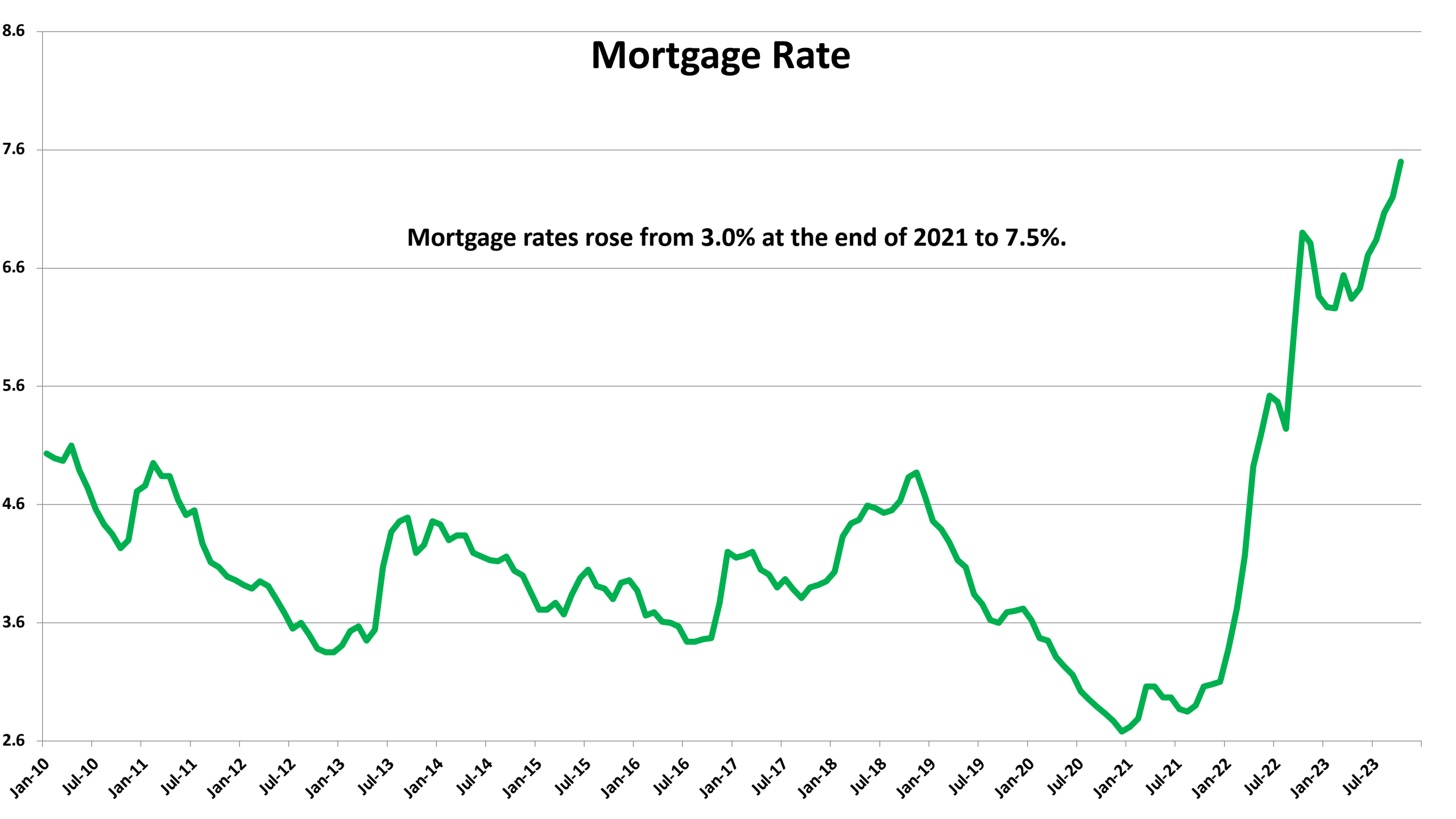
Housing.

Existing Home Sales

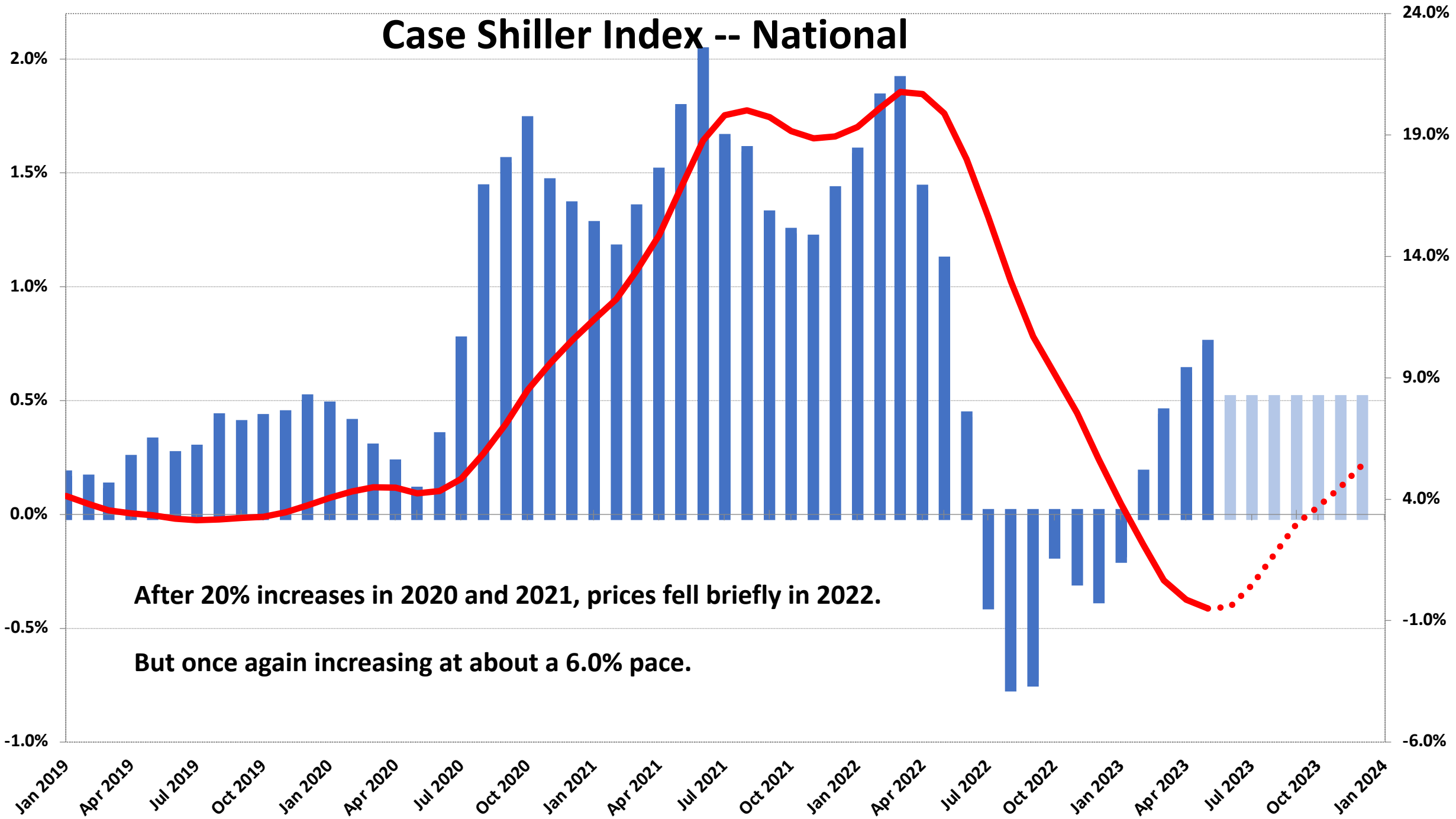


Mortgage Rate

Mortgage rates rose from 3.0% at the end of 2021 to 7.5%.



Case Shiller Index -- National



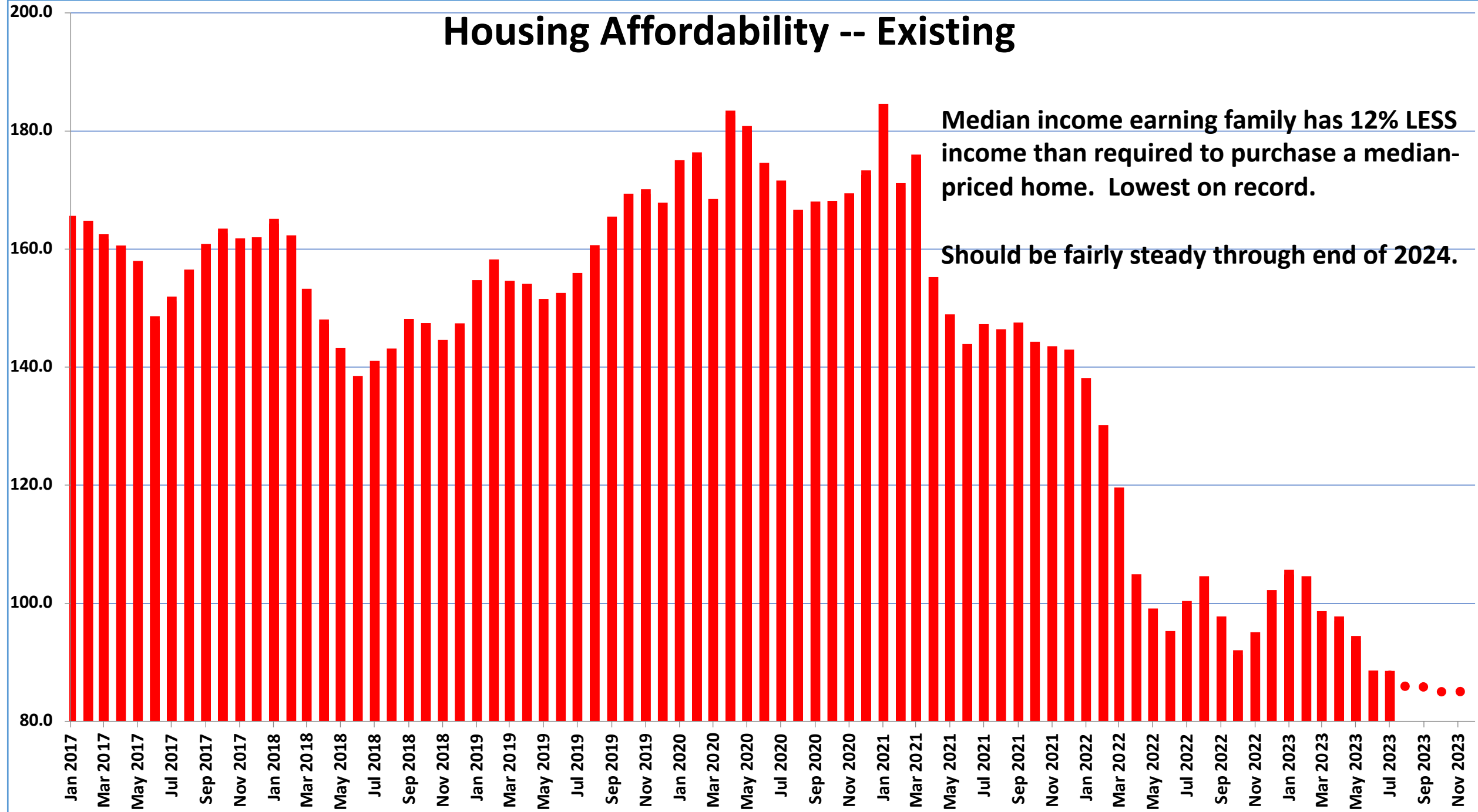
After 20% increases in 2020 and 2021, prices fell briefly in 2022.

But once again increasing at about a 6.0% pace.

Housing Affordability -- Existing

Median income earning family has 12% LESS income than required to purchase a median-priced home. Lowest on record.

Should be fairly steady through end of 2024.

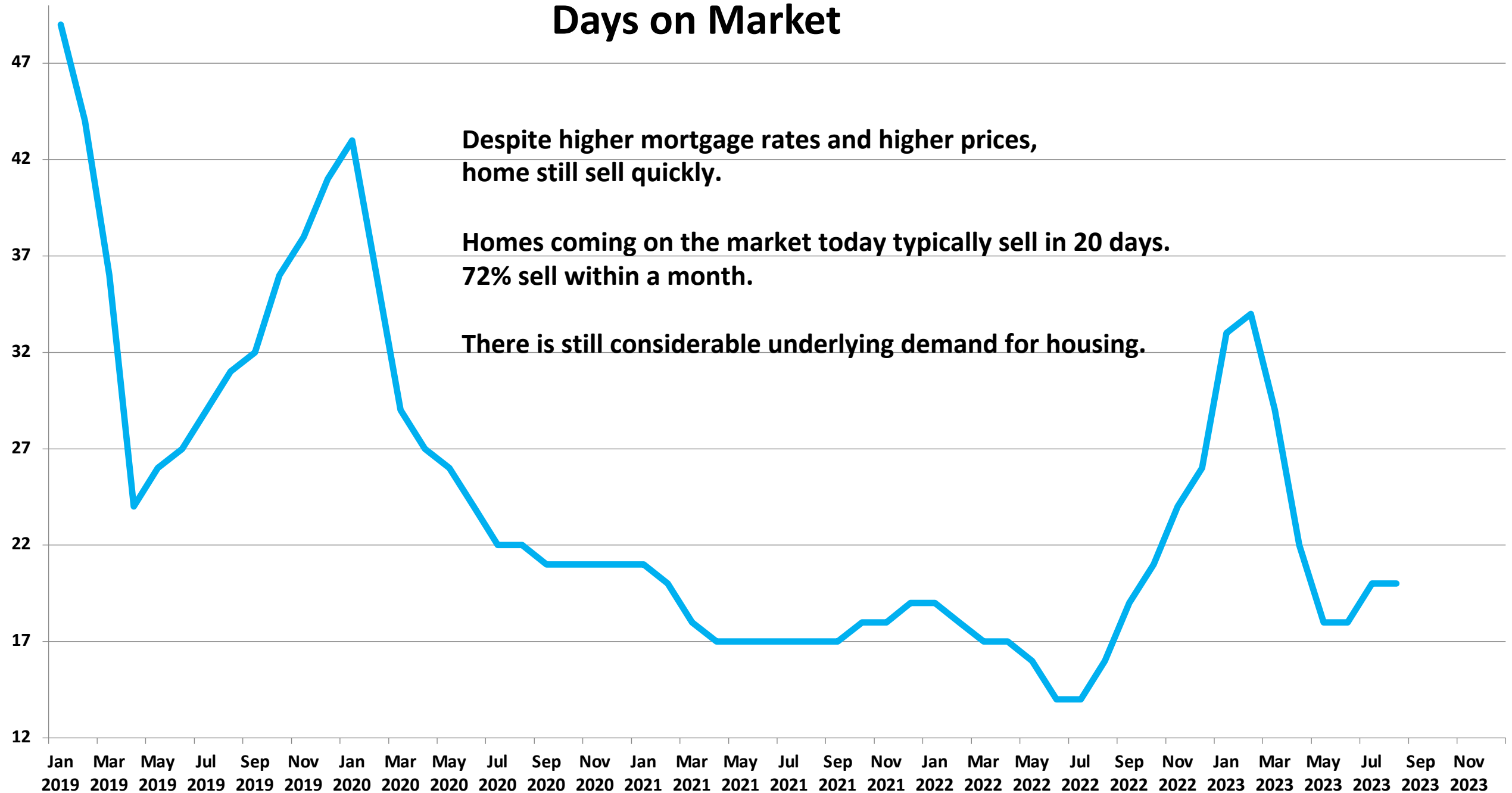


Days on Market

**Despite higher mortgage rates and higher prices,
home still sell quickly.**

**Homes coming on the market today typically sell in 20 days.
72% sell within a month.**

There is still considerable underlying demand for housing.



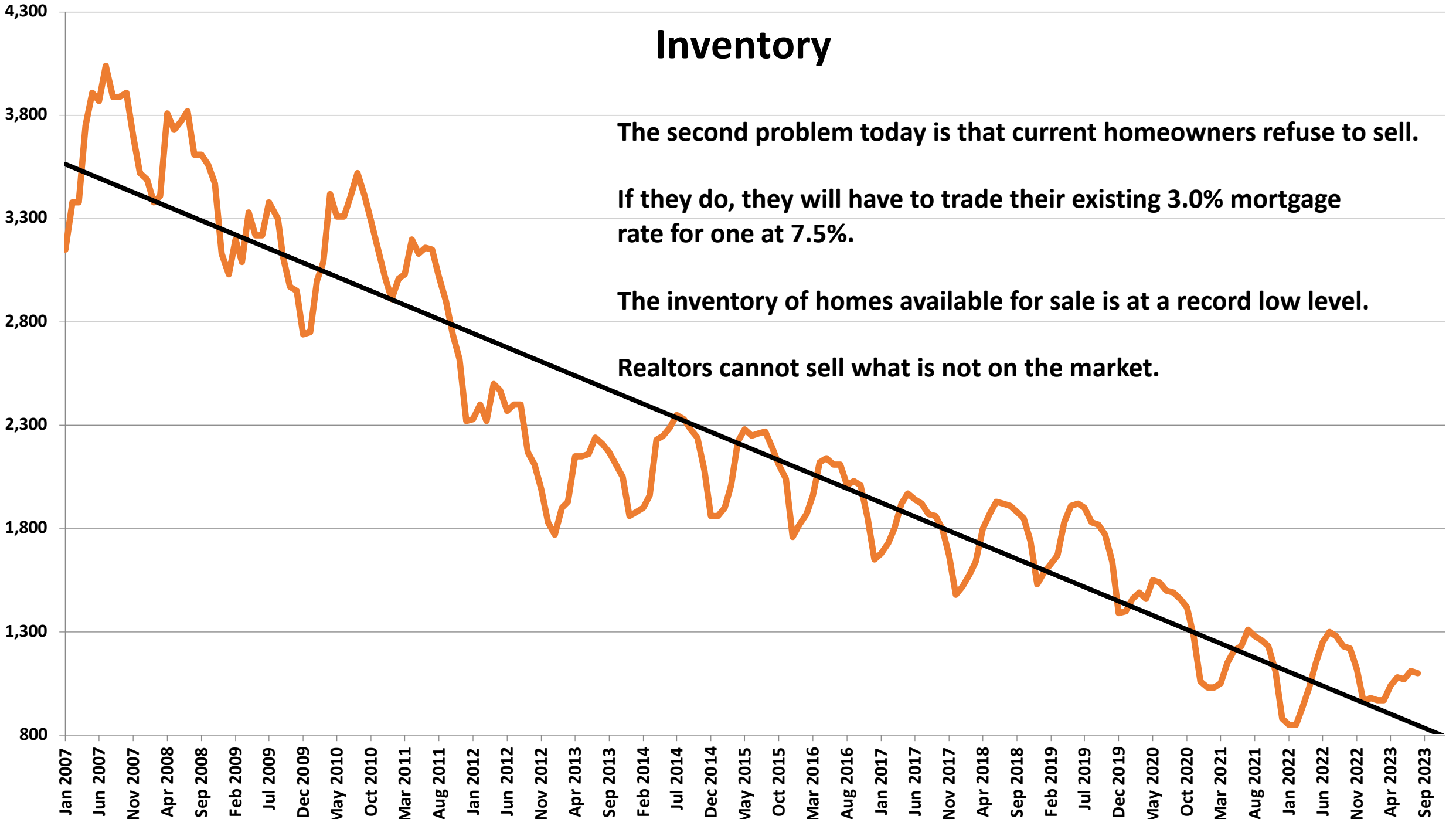
Inventory

The second problem today is that current homeowners refuse to sell.

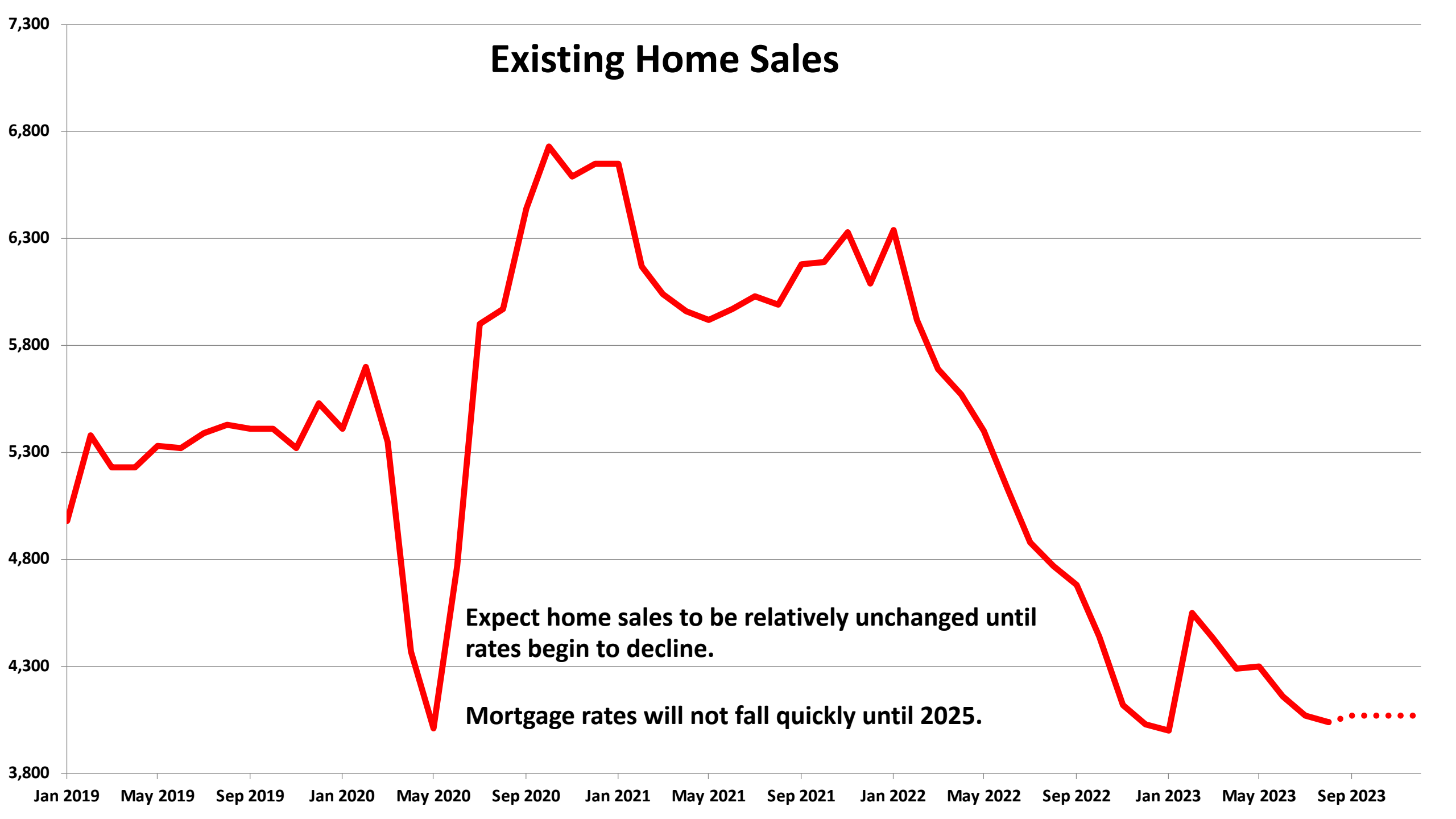
If they do, they will have to trade their existing 3.0% mortgage rate for one at 7.5%.

The inventory of homes available for sale is at a record low level.

Realtors cannot sell what is not on the market.



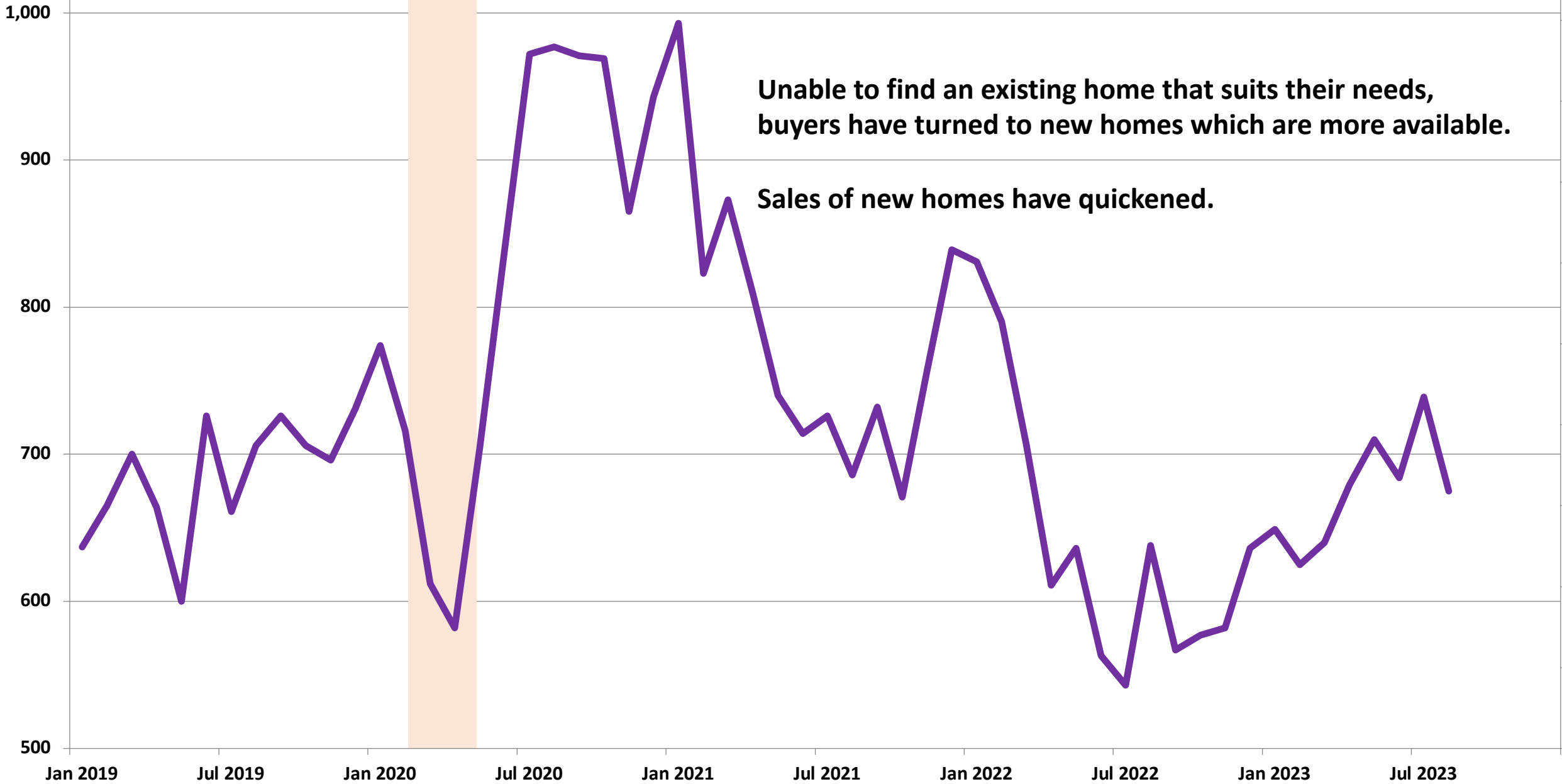
Existing Home Sales



Expect home sales to be relatively unchanged until rates begin to decline.

Mortgage rates will not fall quickly until 2025.

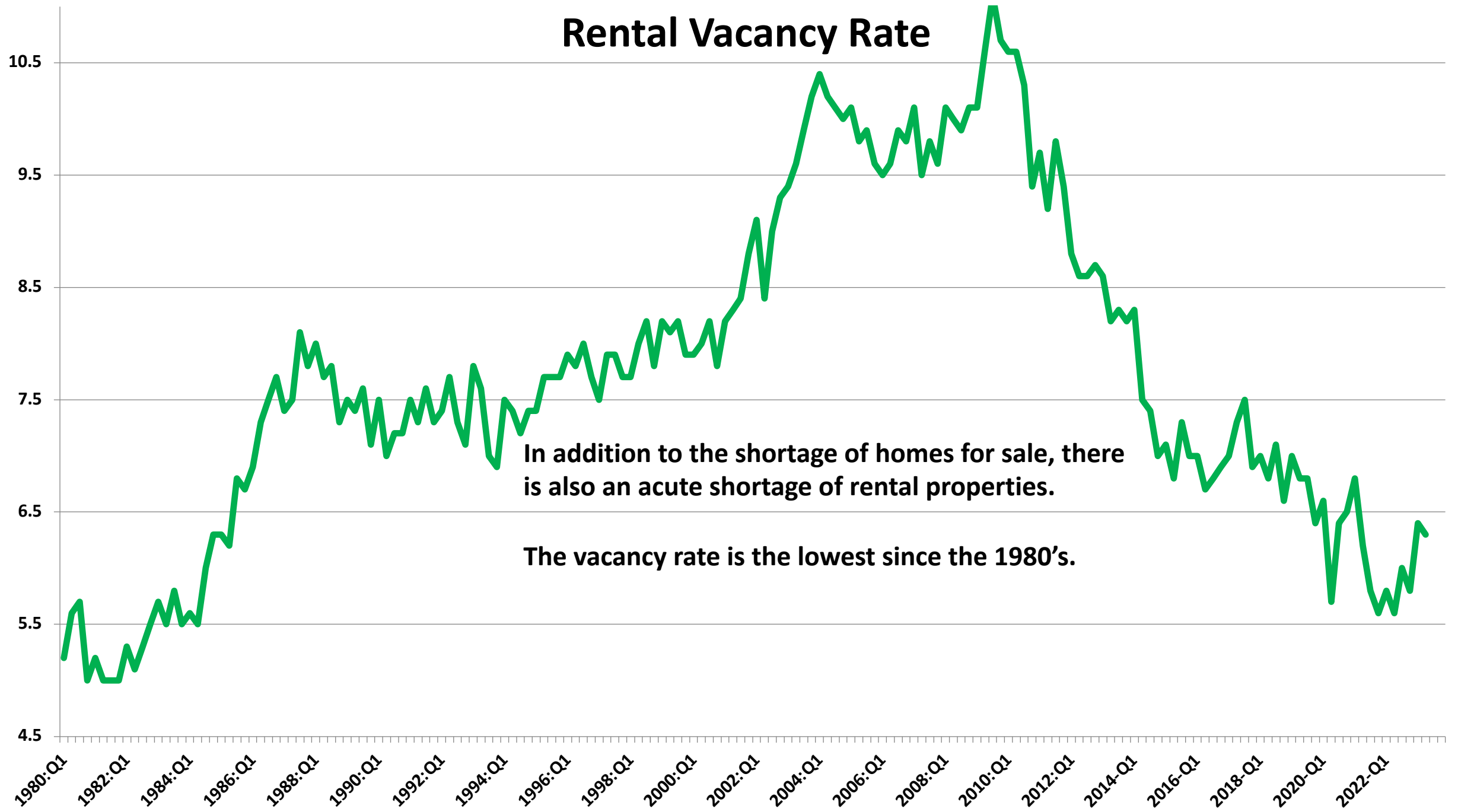
New Home Sales



Unable to find an existing home that suits their needs, buyers have turned to new homes which are more available.

Sales of new homes have quickened.

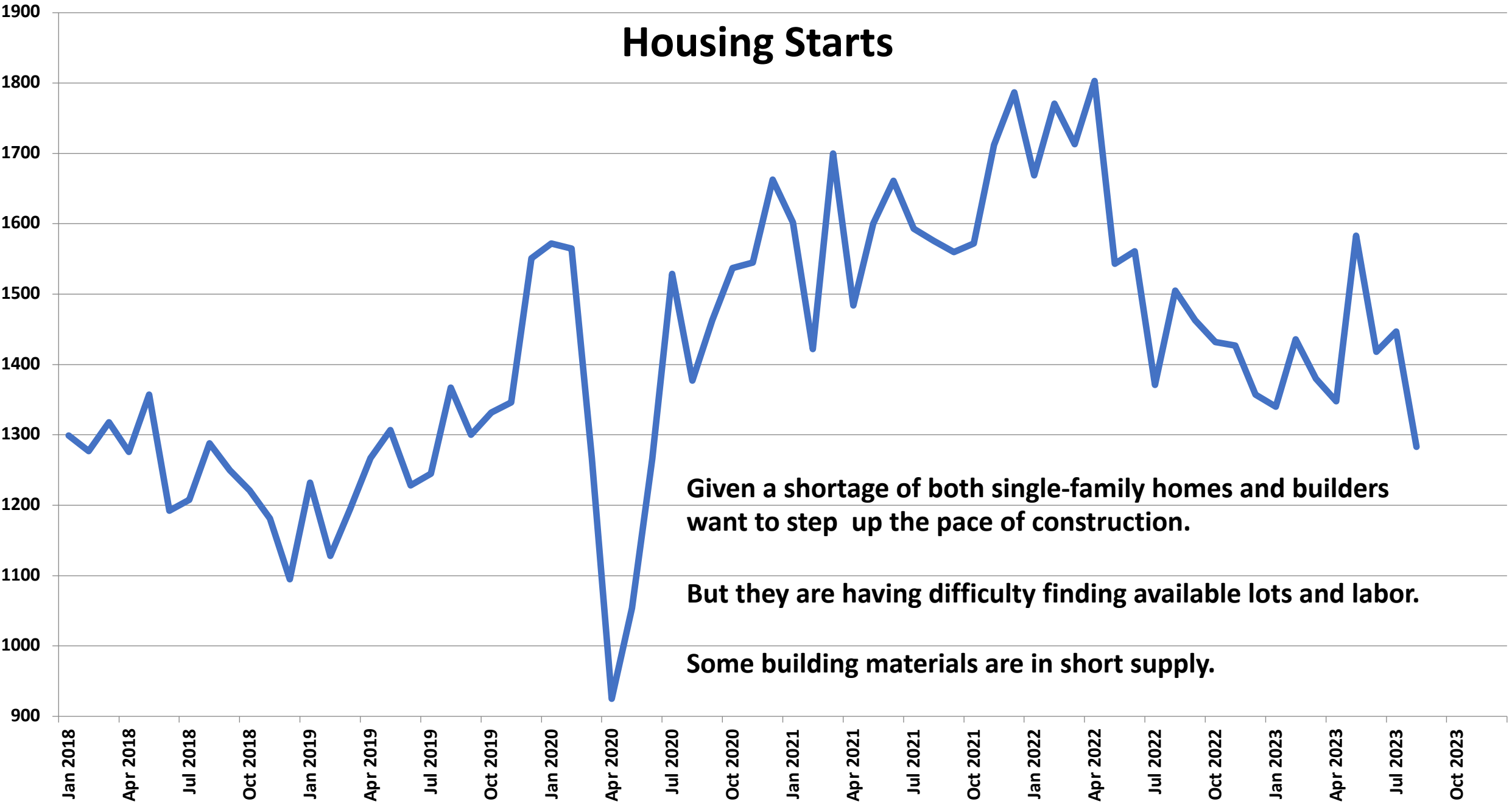
Rental Vacancy Rate



In addition to the shortage of homes for sale, there is also an acute shortage of rental properties.

The vacancy rate is the lowest since the 1980's.

Housing Starts



Given a shortage of both single-family homes and builders want to step up the pace of construction.

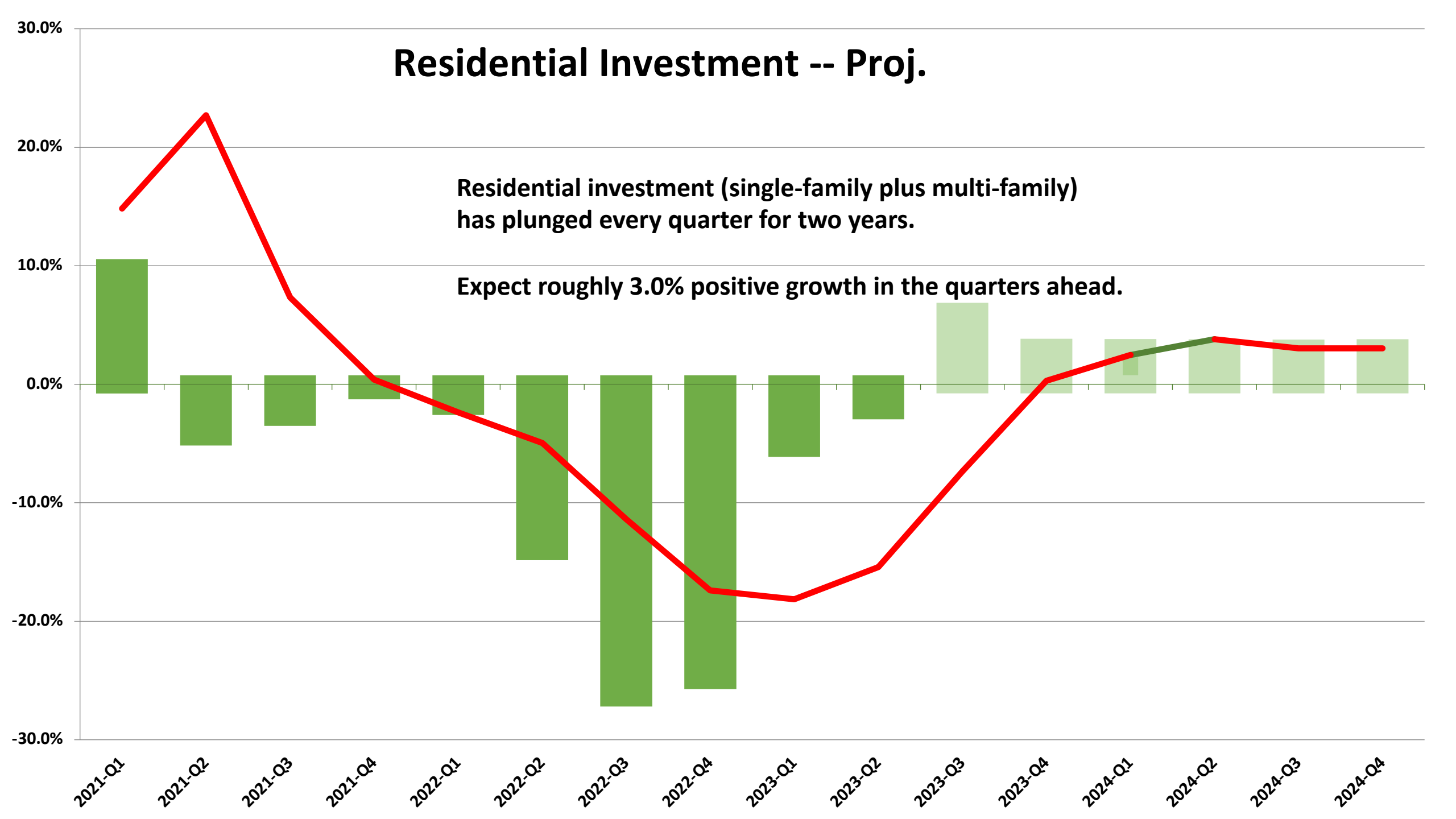
But they are having difficulty finding available lots and labor.

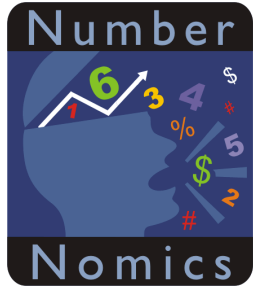
Some building materials are in short supply.

Residential Investment -- Proj.

Residential investment (single-family plus multi-family) has plunged every quarter for two years.

Expect roughly 3.0% positive growth in the quarters ahead.





Economics. Explained.

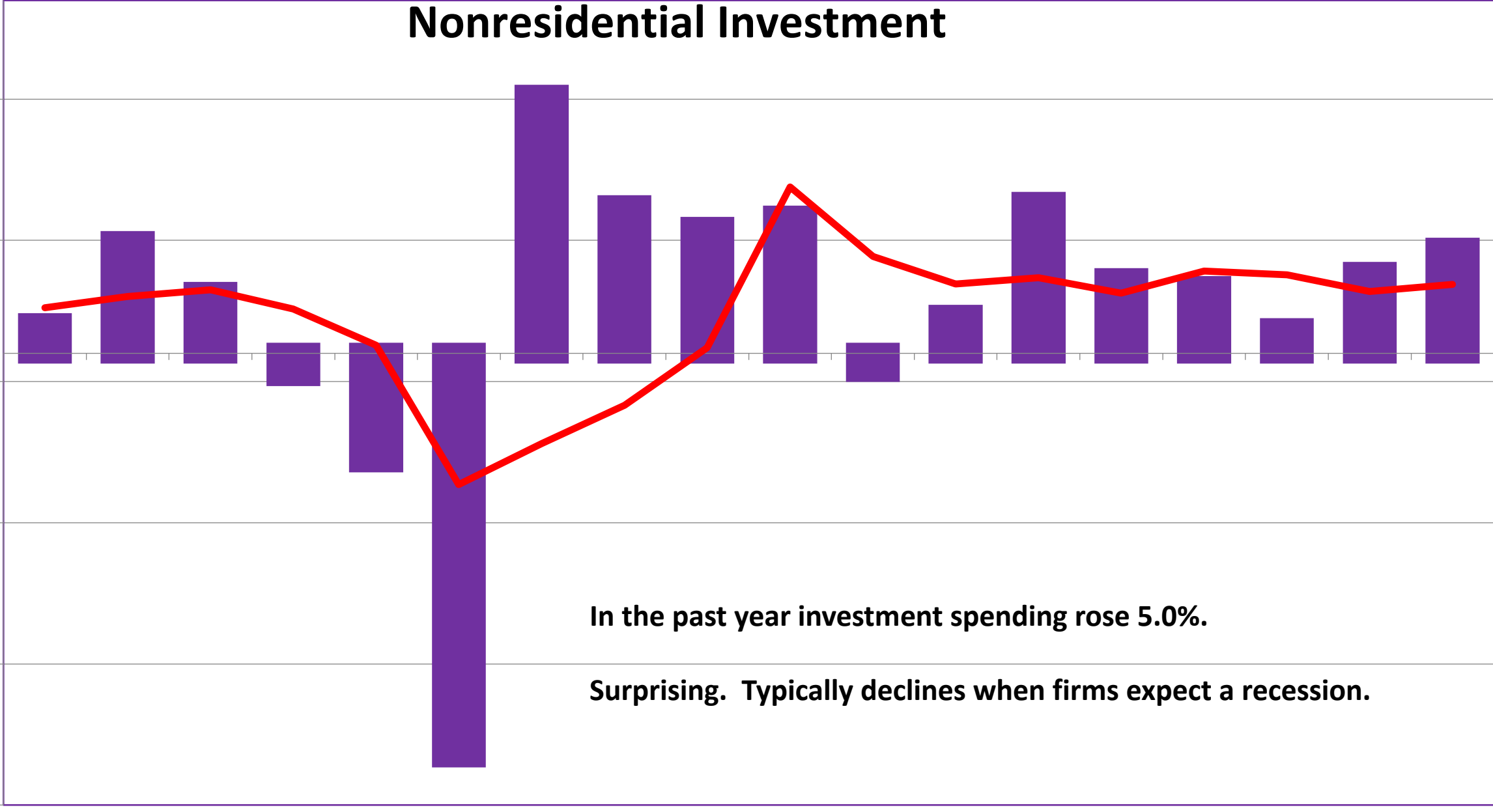
Investment.

Nonresidential Investment

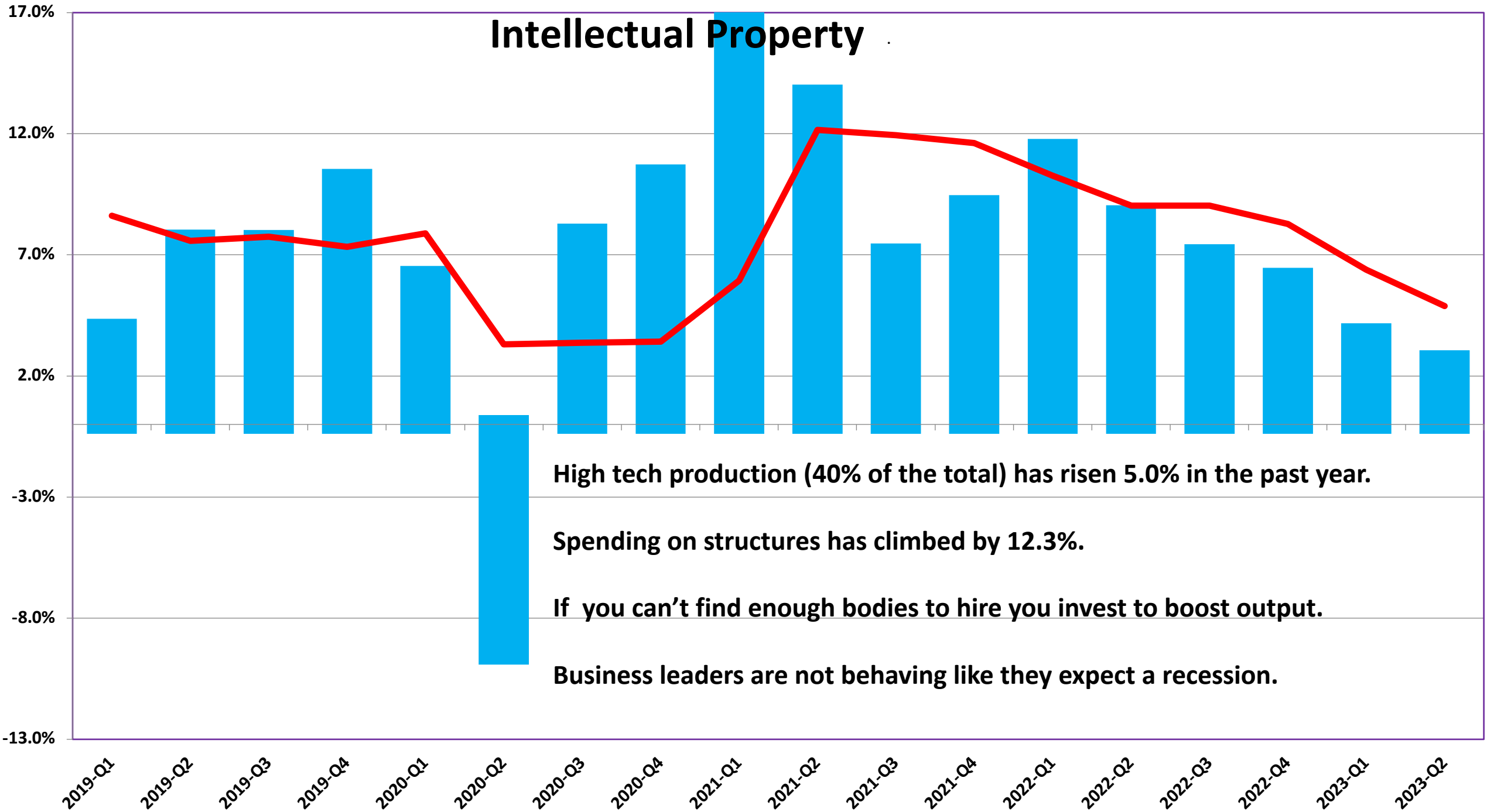
18.0%
8.0%
-2.0%
-12.0%
-22.0%
-32.0%

2019-Q1 2019-Q2 2019-Q3 2019-Q4 2020-Q1 2020-Q2 2020-Q3 2020-Q4 2021-Q1 2021-Q2 2021-Q3 2021-Q4 2022-Q1 2022-Q2 2022-Q3 2022-Q4 2023-Q1

In the past year investment spending rose 5.0%.
Surprising. Typically declines when firms expect a recession.



Intellectual Property



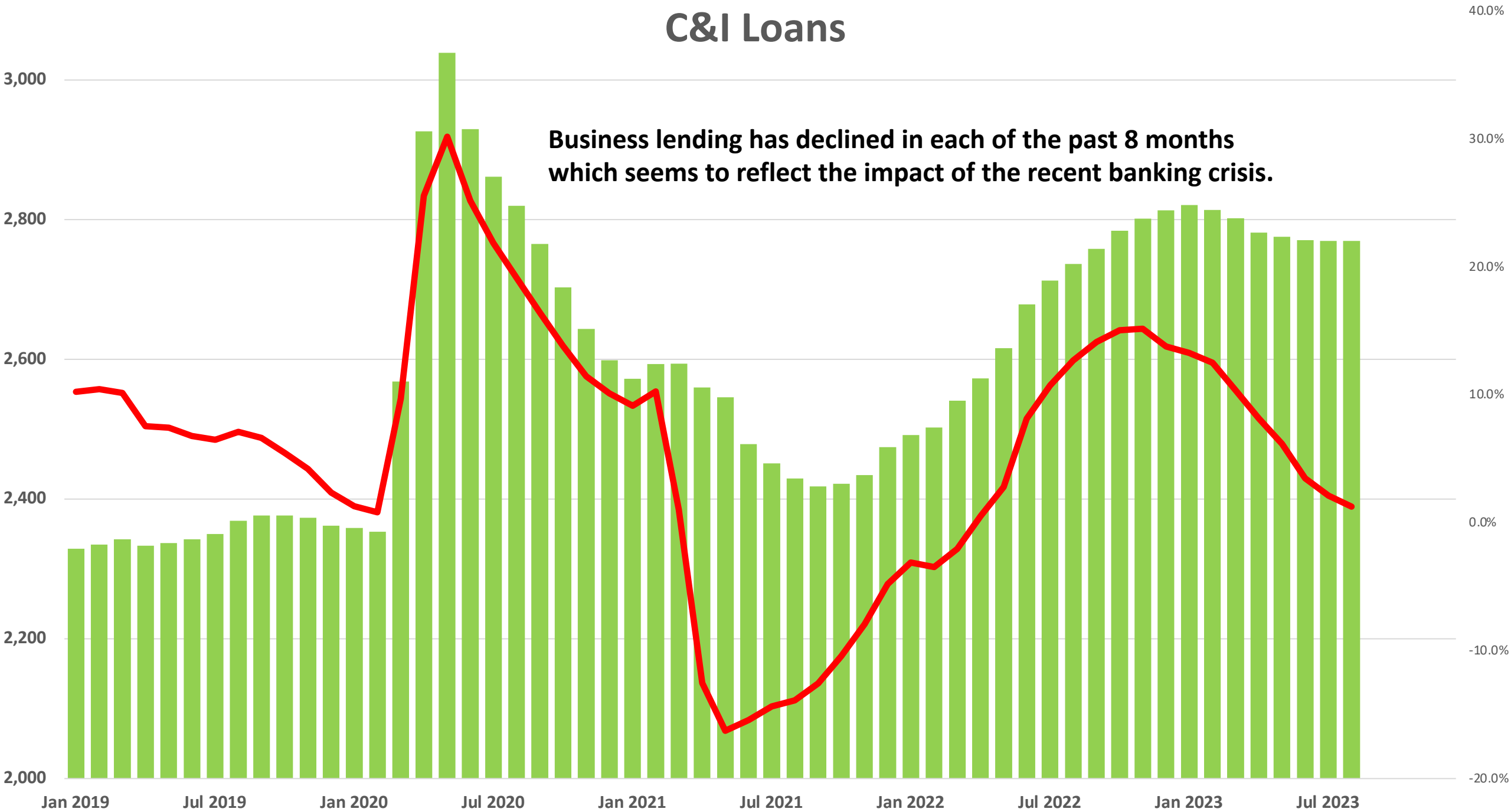
High tech production (40% of the total) has risen 5.0% in the past year.

Spending on structures has climbed by 12.3%.

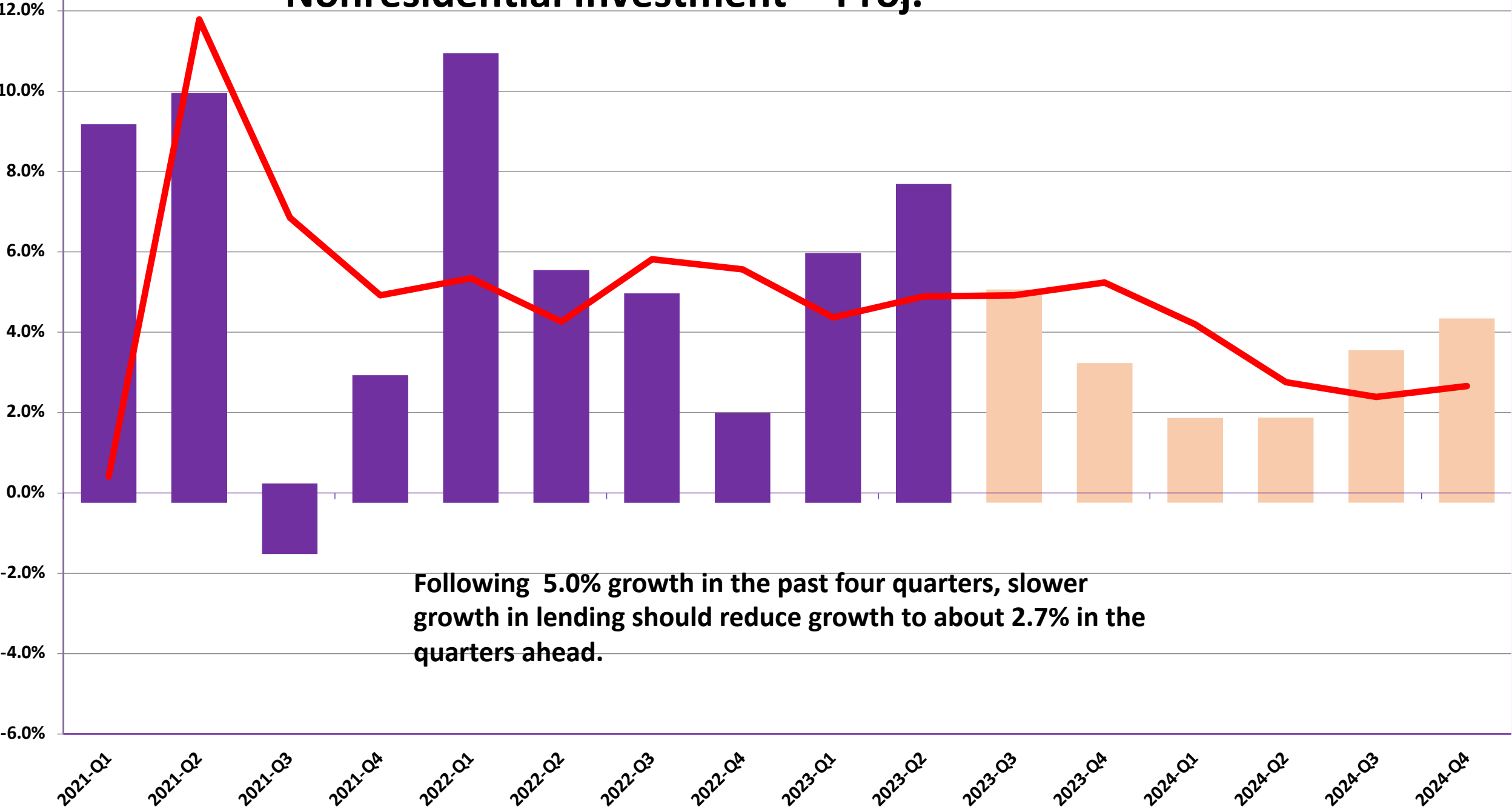
If you can't find enough bodies to hire you invest to boost output.

Business leaders are not behaving like they expect a recession.

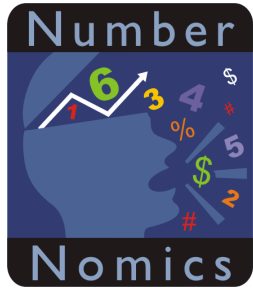
C&I Loans



Nonresidential Investment -- Proj.



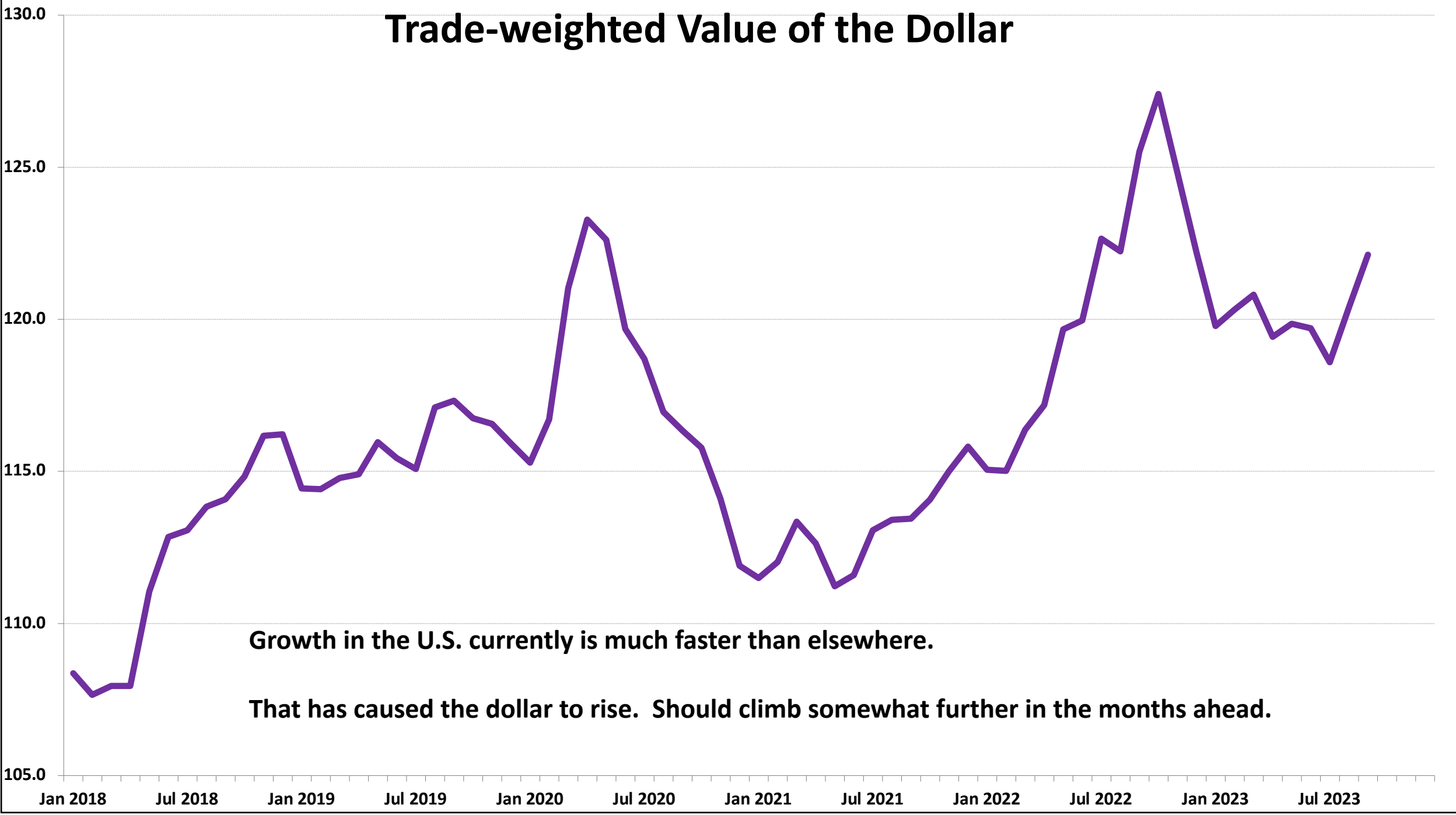
Following 5.0% growth in the past four quarters, slower growth in lending should reduce growth to about 2.7% in the quarters ahead.



Economics. Explained.

Trade.

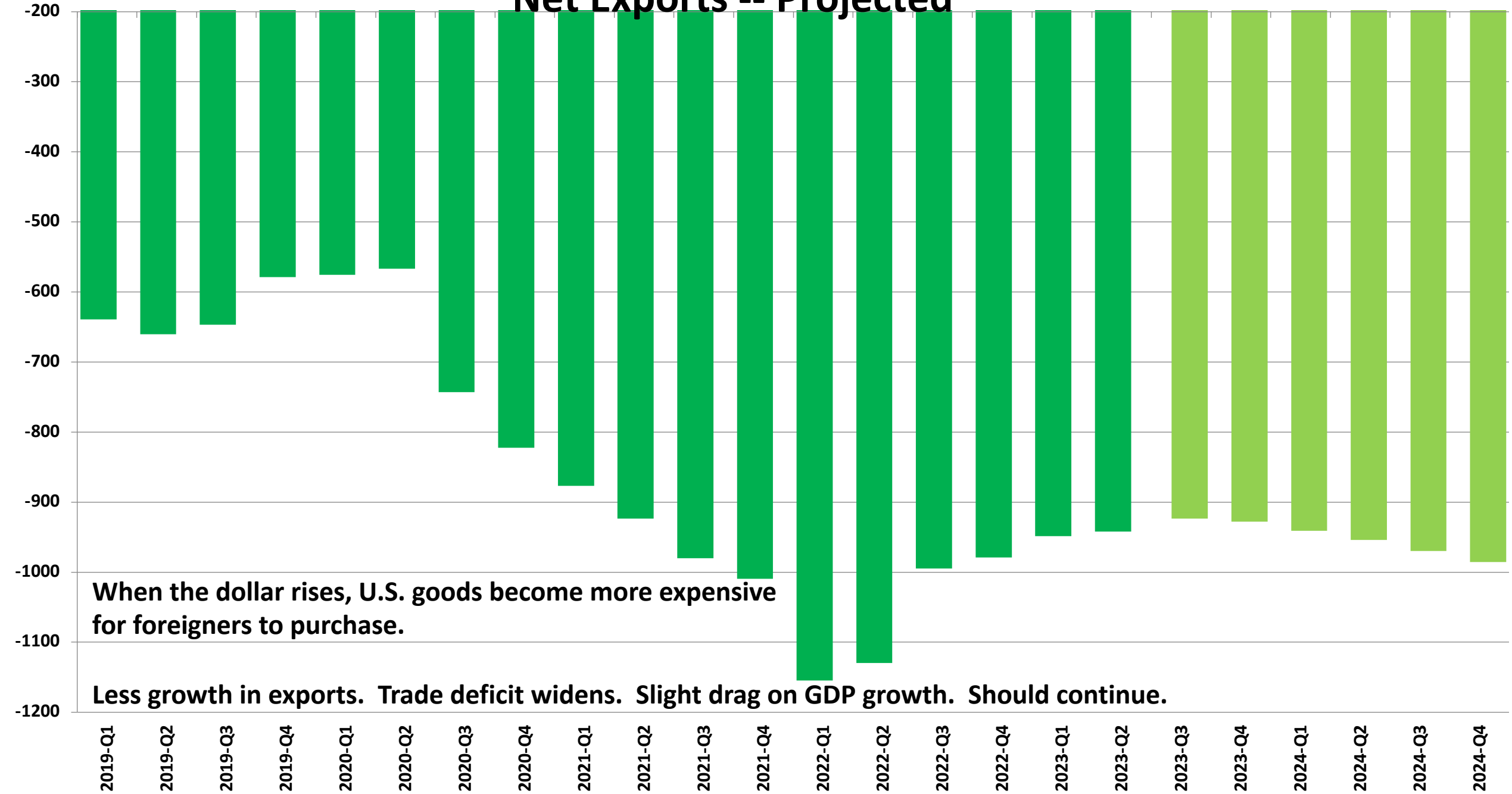
Trade-weighted Value of the Dollar



Growth in the U.S. currently is much faster than elsewhere.

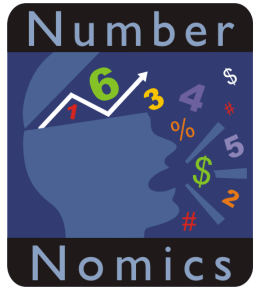
That has caused the dollar to rise. Should climb somewhat further in the months ahead.

Net Exports -- Projected



When the dollar rises, U.S. goods become more expensive for foreigners to purchase.

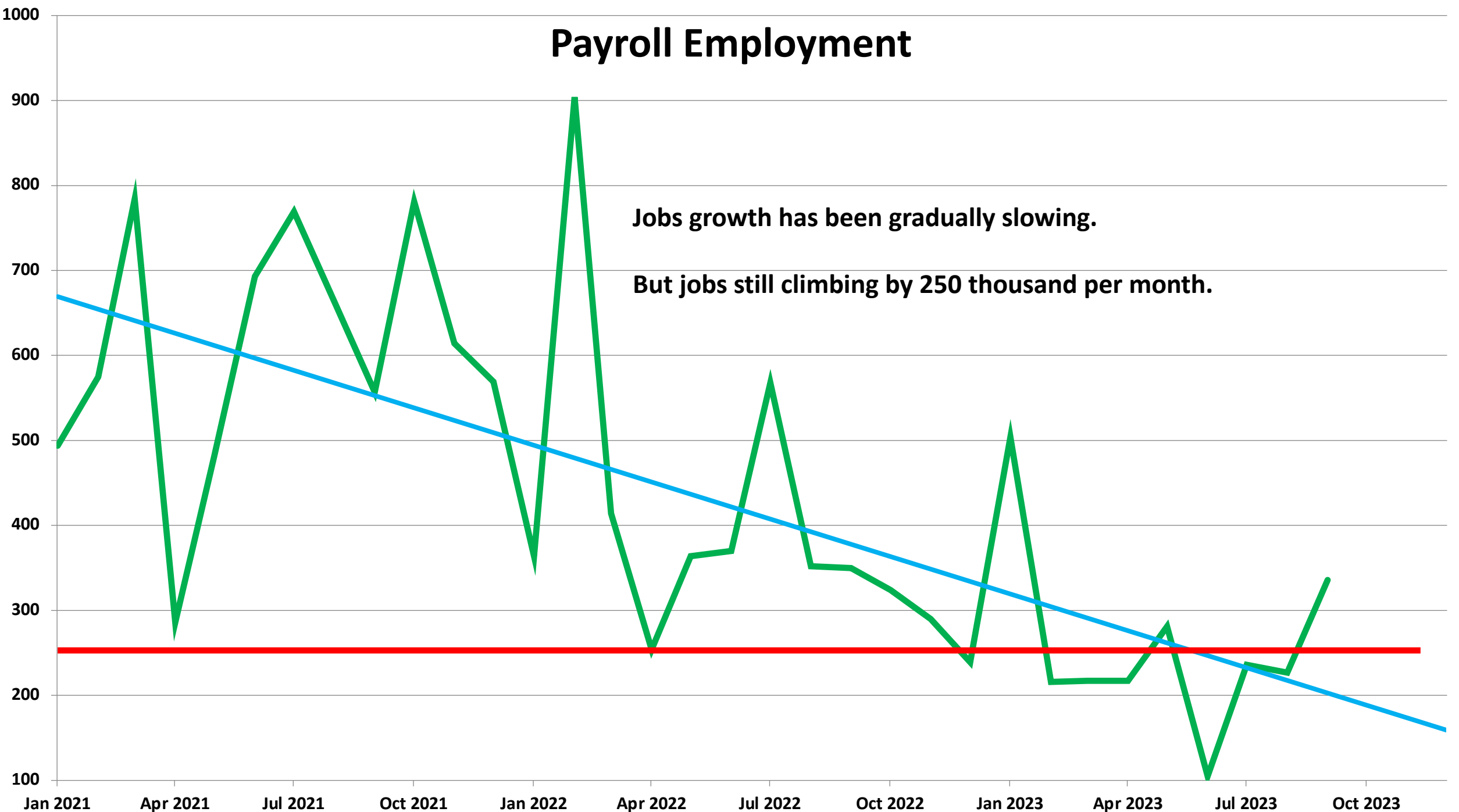
Less growth in exports. Trade deficit widens. Slight drag on GDP growth. Should continue.



Economics. Explained.

Employment.

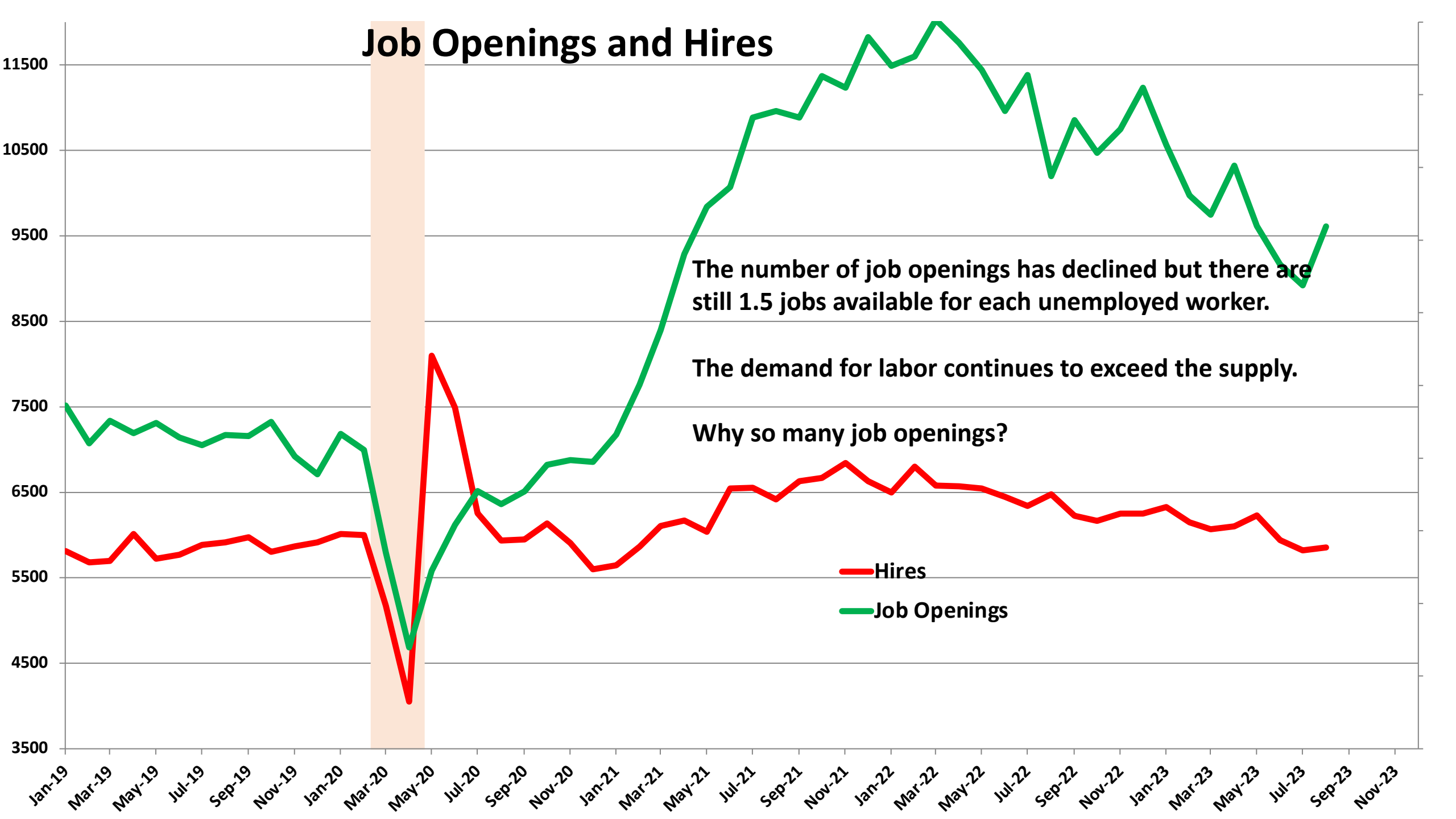
Payroll Employment



Jobs growth has been gradually slowing.

But jobs still climbing by 250 thousand per month.

Job Openings and Hires



The number of job openings has declined but there are still 1.5 jobs available for each unemployed worker.

The demand for labor continues to exceed the supply.

Why so many job openings?

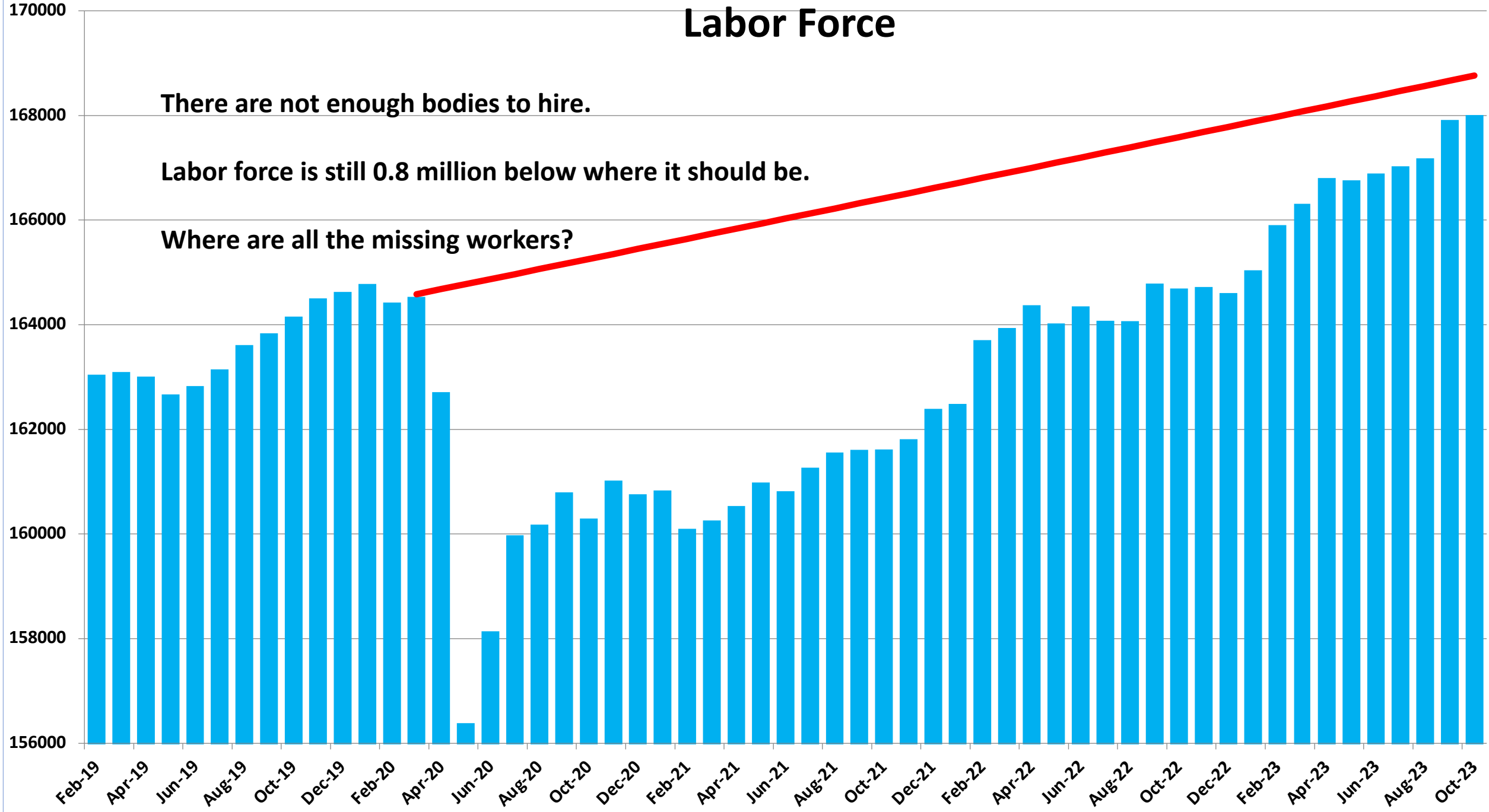
Hires
Job Openings

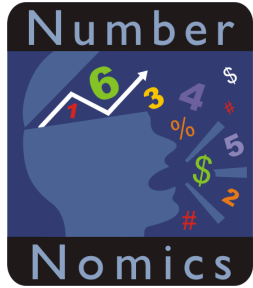
Labor Force

There are not enough bodies to hire.

Labor force is still 0.8 million below where it should be.

Where are all the missing workers?





Economics. Explained.

1.5 million missing workers.

- 1. 1.0 million retired.**
- 2. Some 0.5 million died from COVID.**

Some of the missing workers are once again looking for jobs.

Unemployment Rate

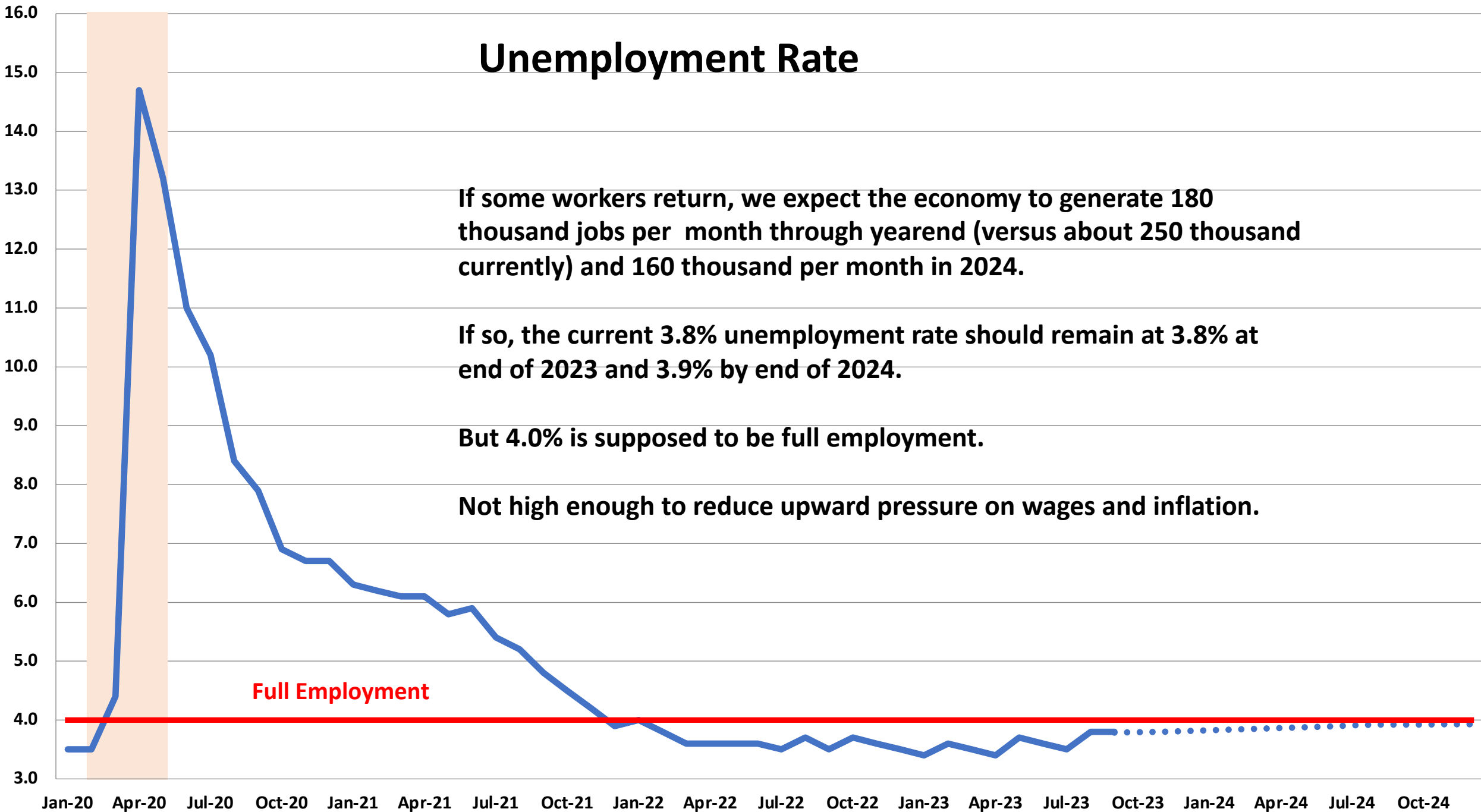
If some workers return, we expect the economy to generate 180 thousand jobs per month through yearend (versus about 250 thousand currently) and 160 thousand per month in 2024.

If so, the current 3.8% unemployment rate should remain at 3.8% at end of 2023 and 3.9% by end of 2024.

But 4.0% is supposed to be full employment.

Not high enough to reduce upward pressure on wages and inflation.

Full Employment

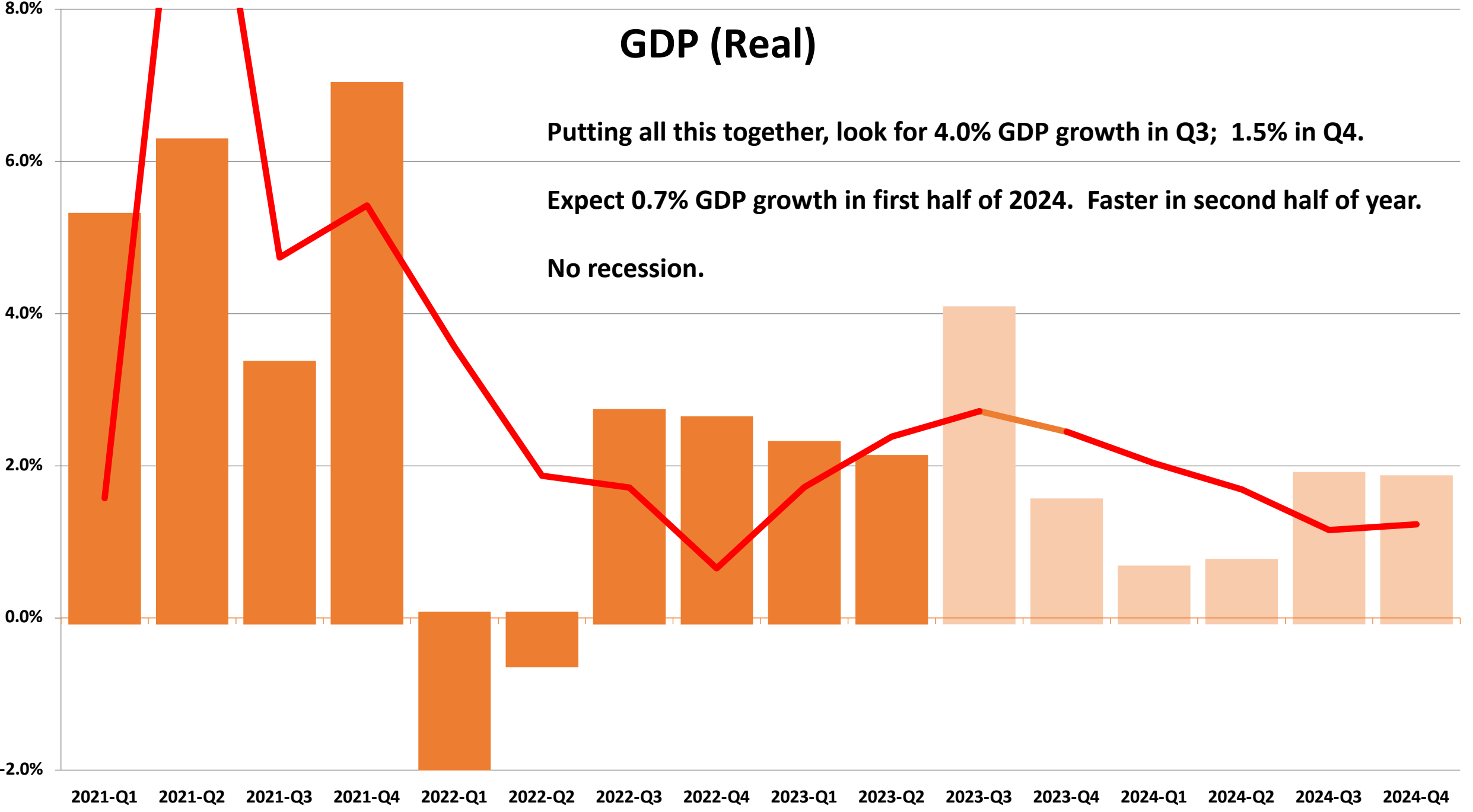


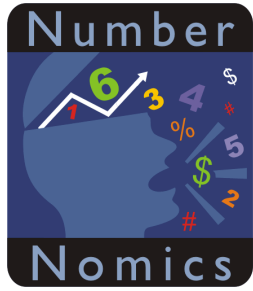
GDP (Real)

Putting all this together, look for 4.0% GDP growth in Q3; 1.5% in Q4.

Expect 0.7% GDP growth in first half of 2024. Faster in second half of year.

No recession.

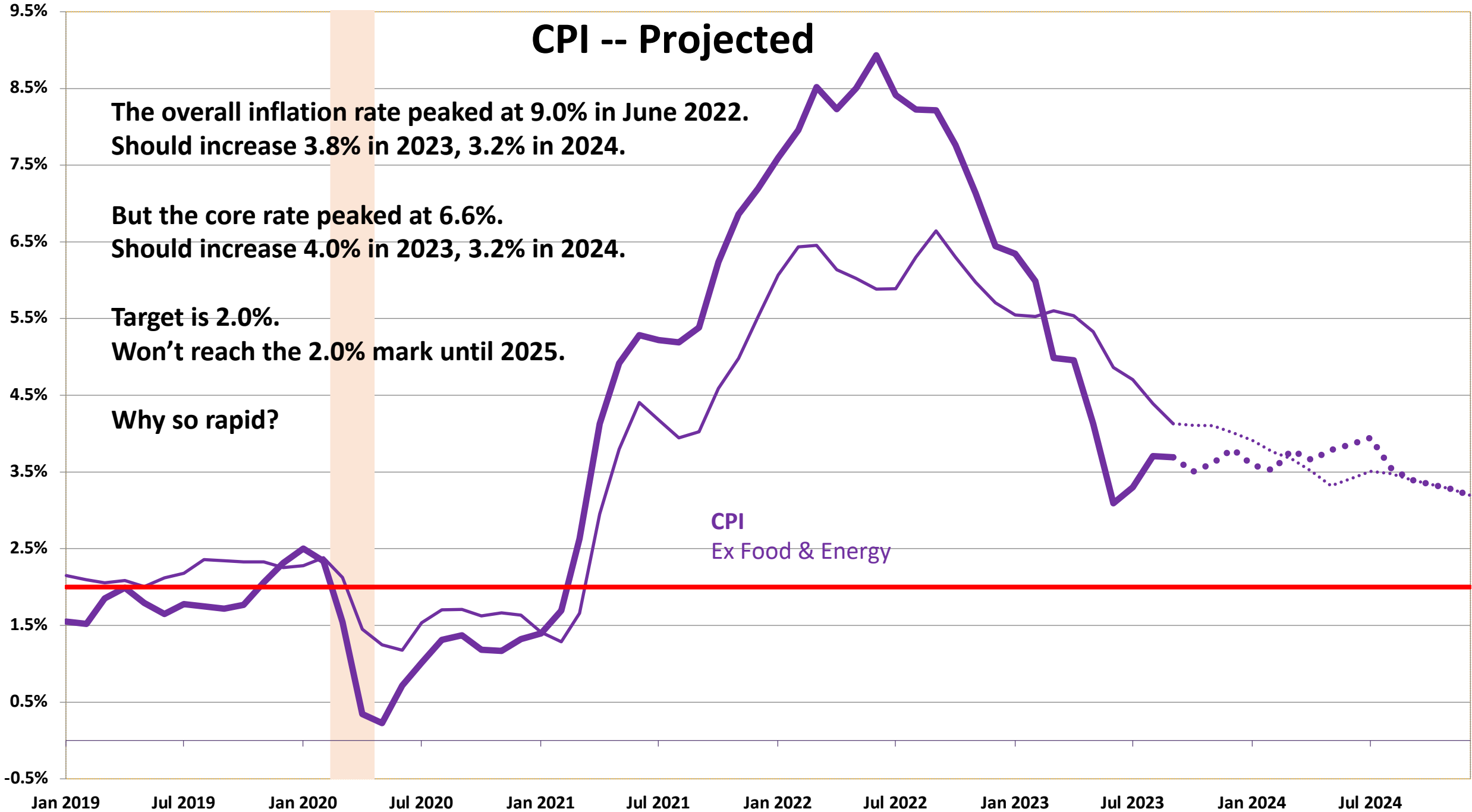




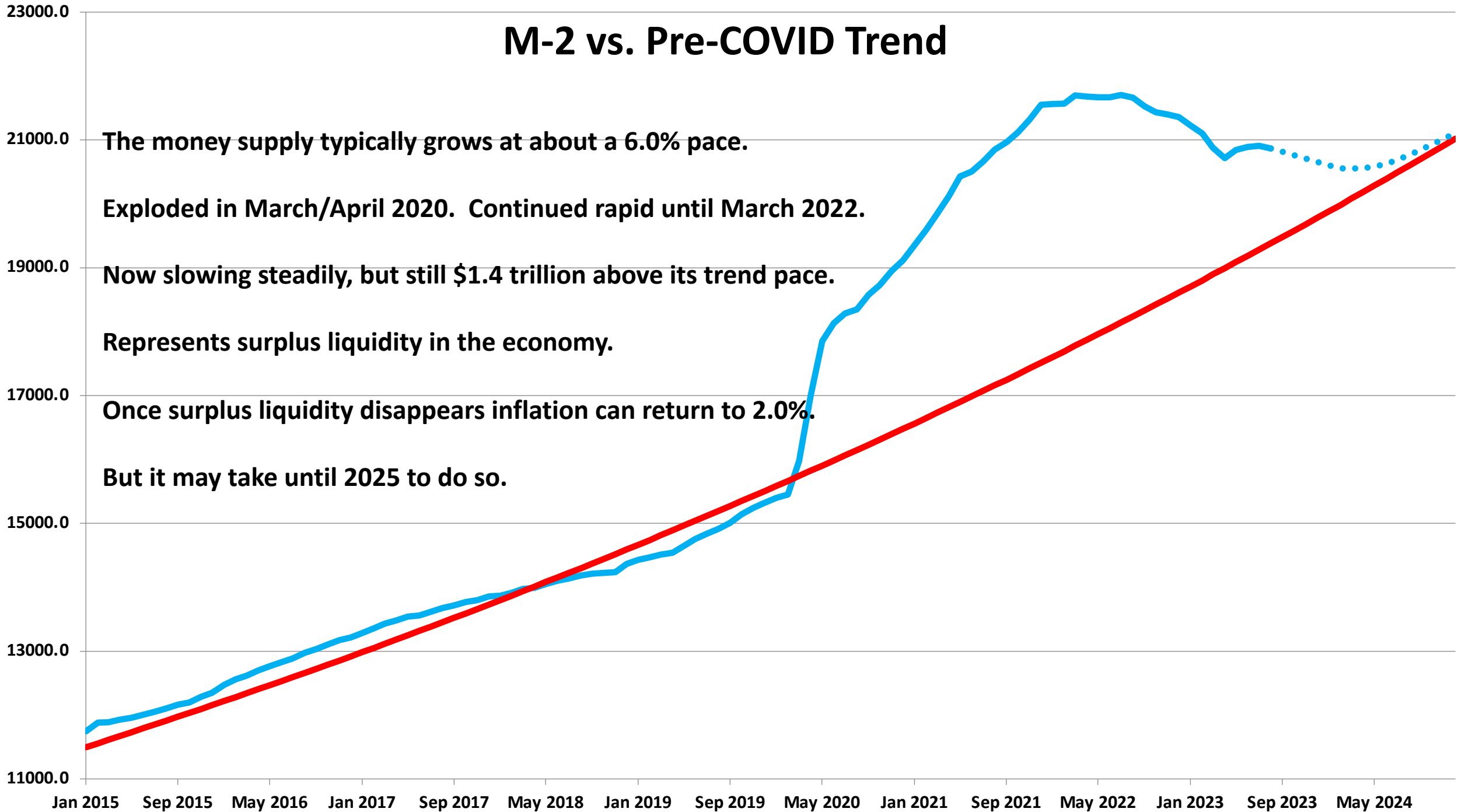
Economics. Explained.

Inflation.

CPI -- Projected



M-2 vs. Pre-COVID Trend



The money supply typically grows at about a 6.0% pace.

Exploded in March/April 2020. Continued rapid until March 2022.

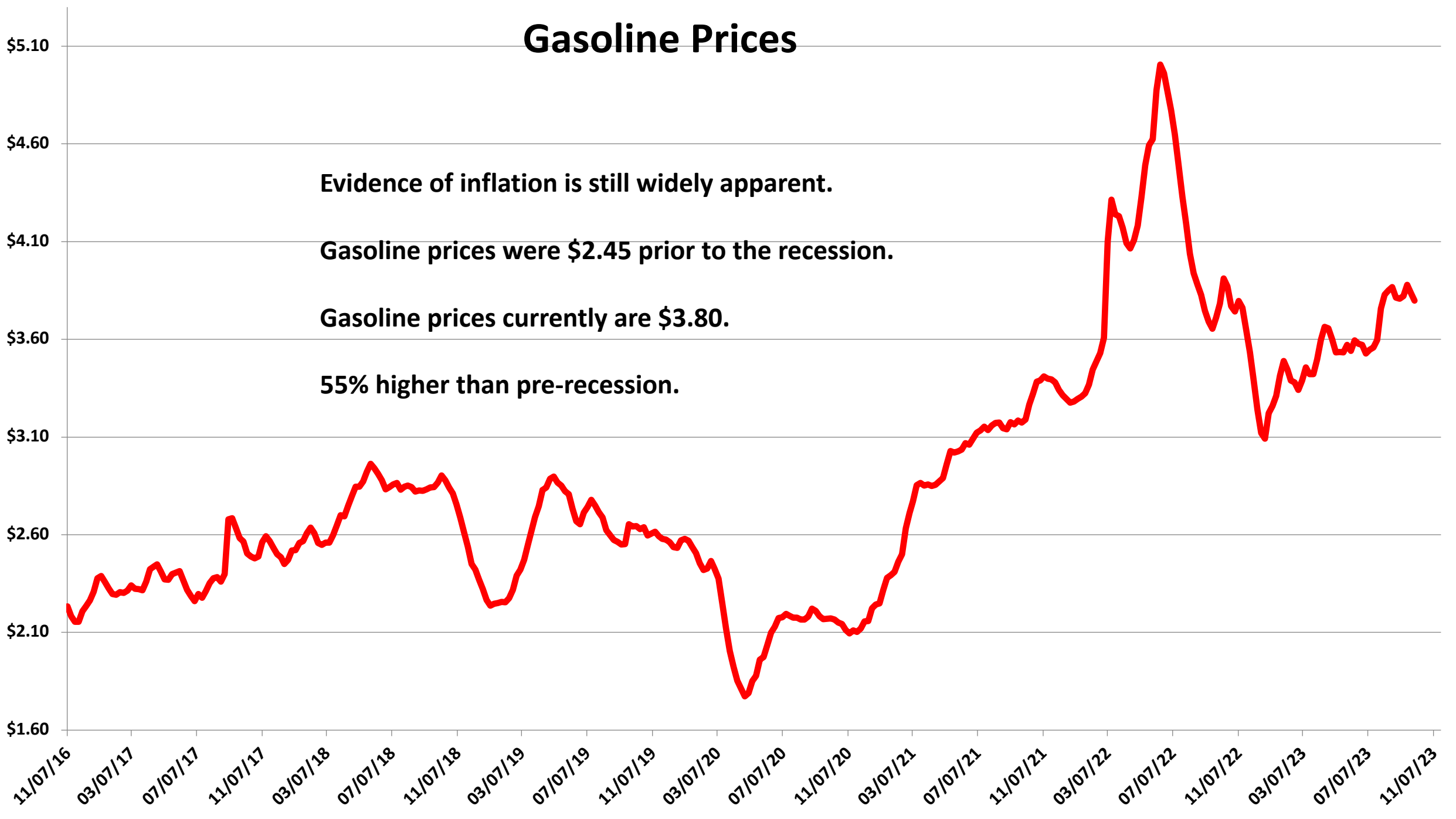
Now slowing steadily, but still \$1.4 trillion above its trend pace.

Represents surplus liquidity in the economy.

Once surplus liquidity disappears inflation can return to 2.0%.

But it may take until 2025 to do so.

Gasoline Prices



Evidence of inflation is still widely apparent.

Gasoline prices were \$2.45 prior to the recession.

Gasoline prices currently are \$3.80.

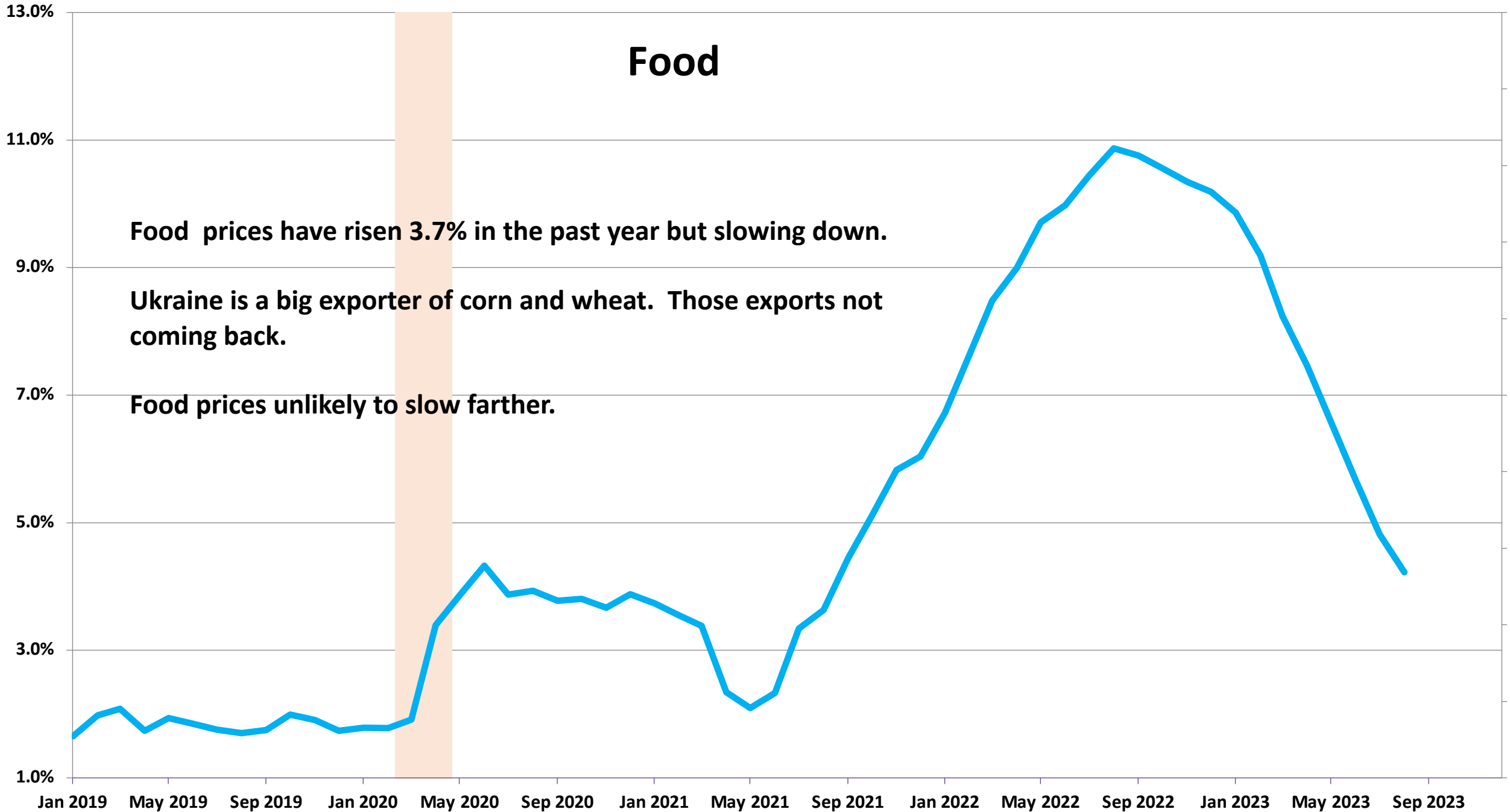
55% higher than pre-recession.

Food

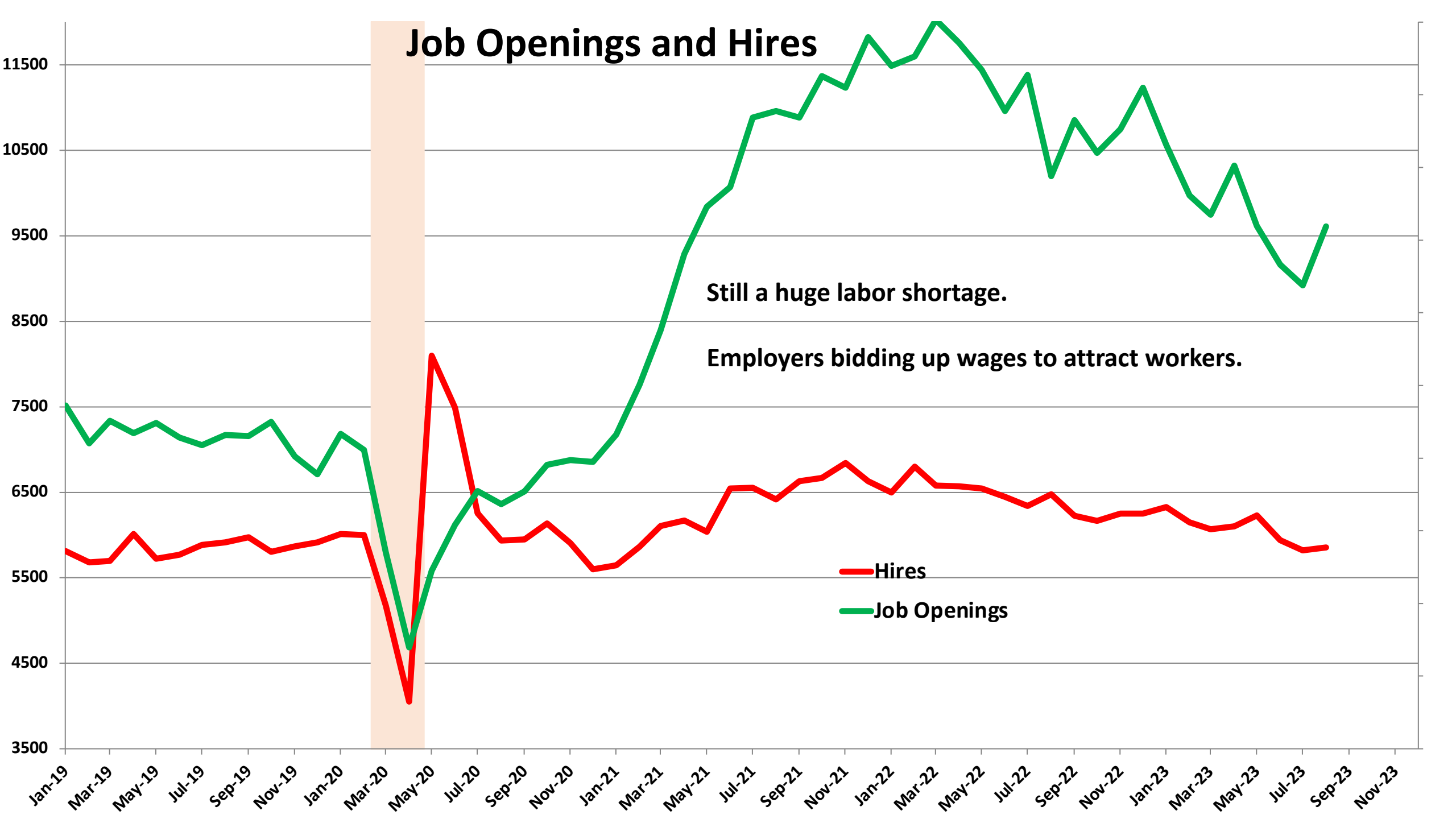
Food prices have risen 3.7% in the past year but slowing down.

Ukraine is a big exporter of corn and wheat. Those exports not coming back.

Food prices unlikely to slow farther.



Job Openings and Hires



Still a huge labor shortage.

Employers bidding up wages to attract workers.

Hires

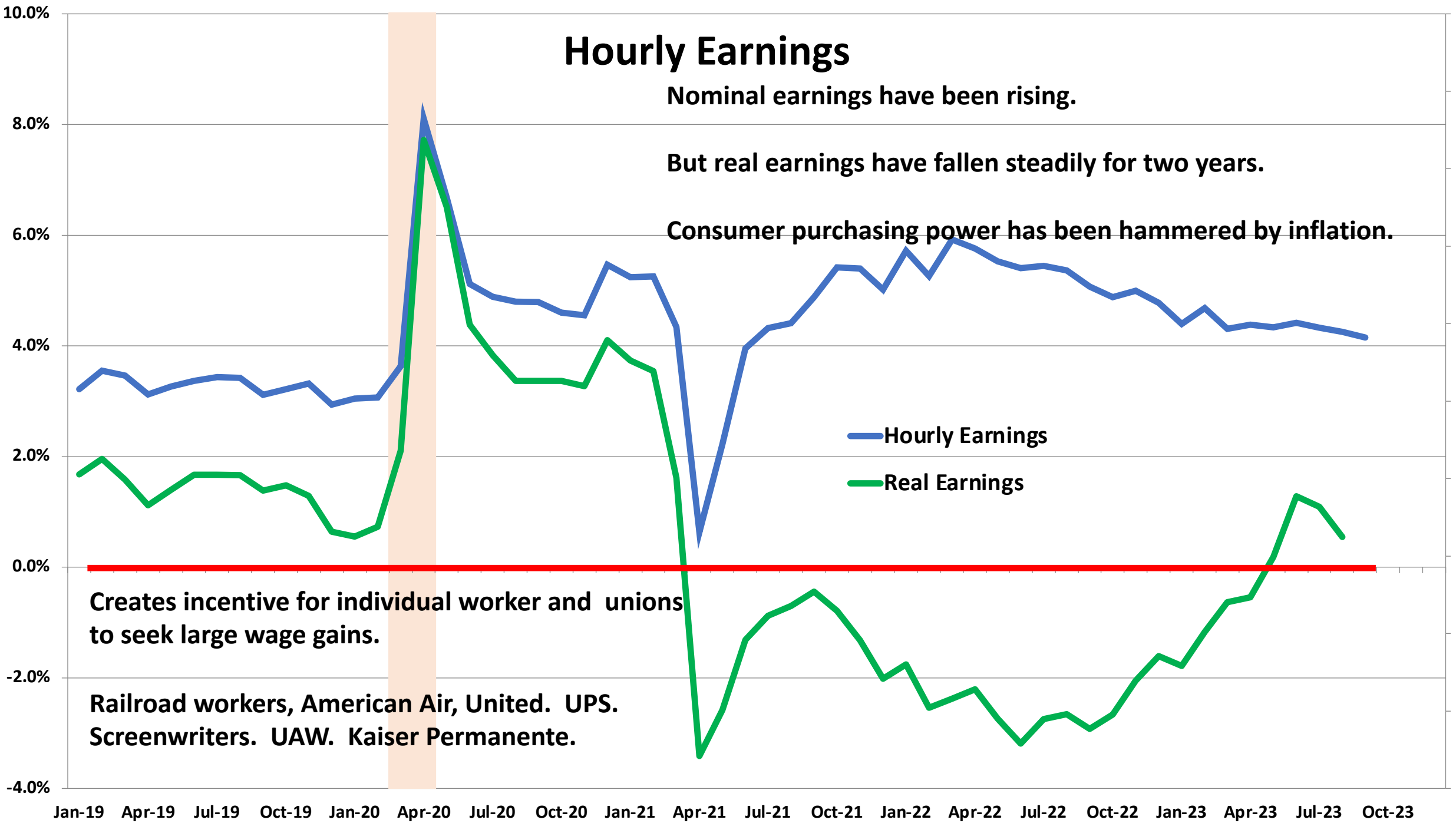
Job Openings

Hourly Earnings

Nominal earnings have been rising.

But real earnings have fallen steadily for two years.

Consumer purchasing power has been hammered by inflation.

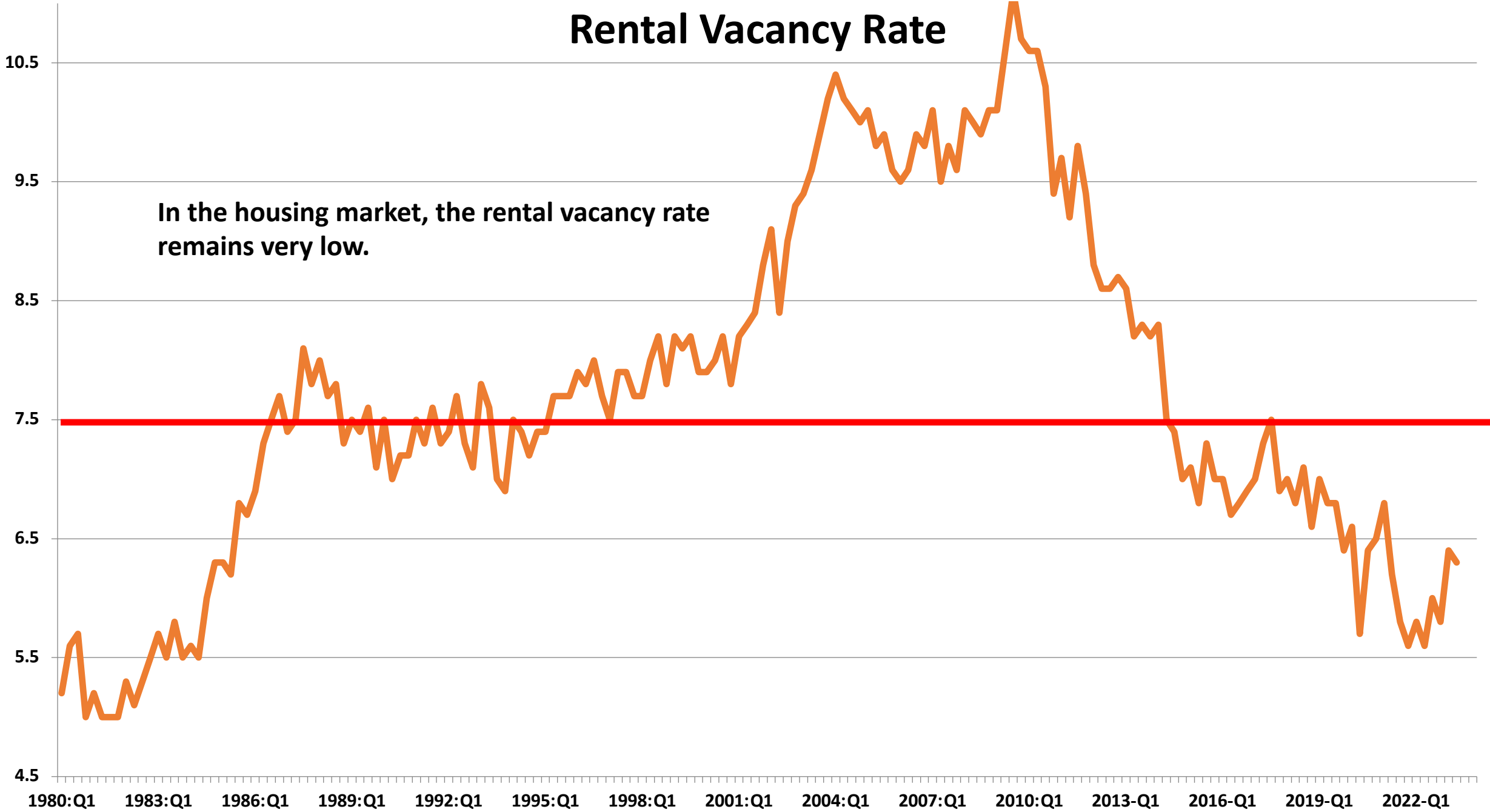


Creates incentive for individual worker and unions to seek large wage gains.

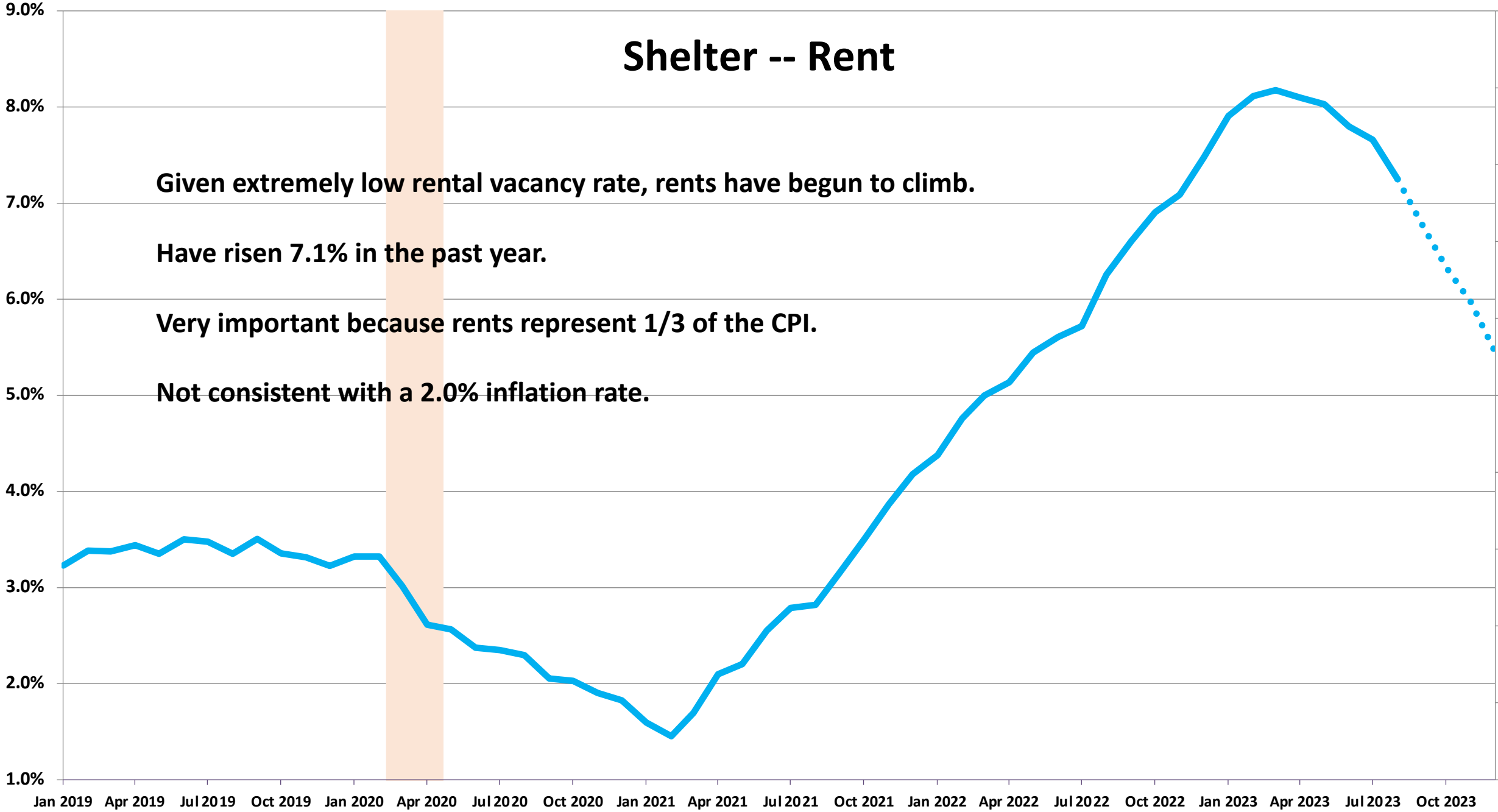
Railroad workers, American Air, United. UPS. Screenwriters. UAW. Kaiser Permanente.

Rental Vacancy Rate

In the housing market, the rental vacancy rate remains very low.



Shelter -- Rent



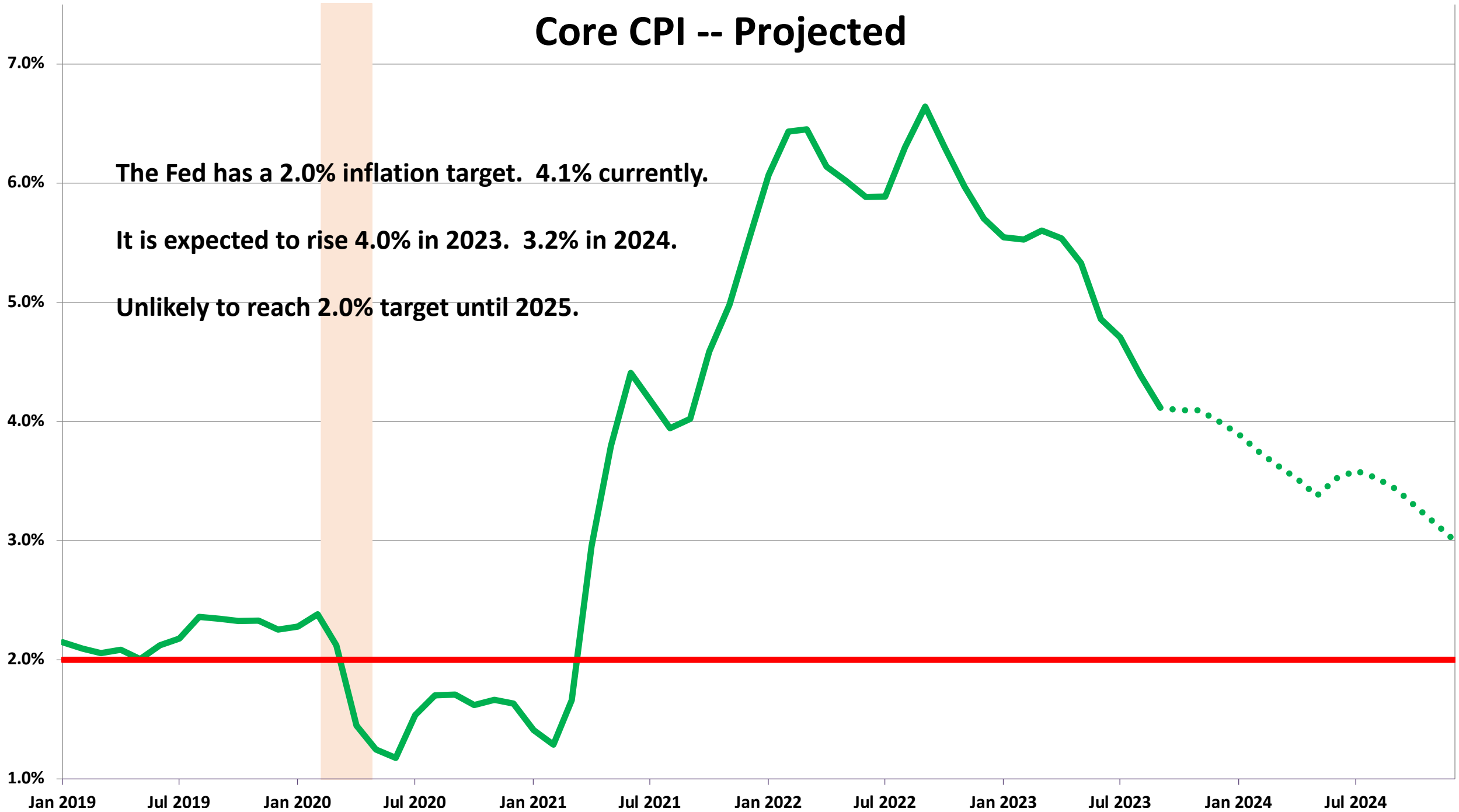
Given extremely low rental vacancy rate, rents have begun to climb.

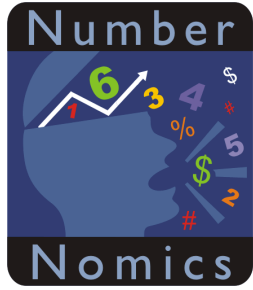
Have risen 7.1% in the past year.

Very important because rents represent 1/3 of the CPI.

Not consistent with a 2.0% inflation rate.

Core CPI -- Projected

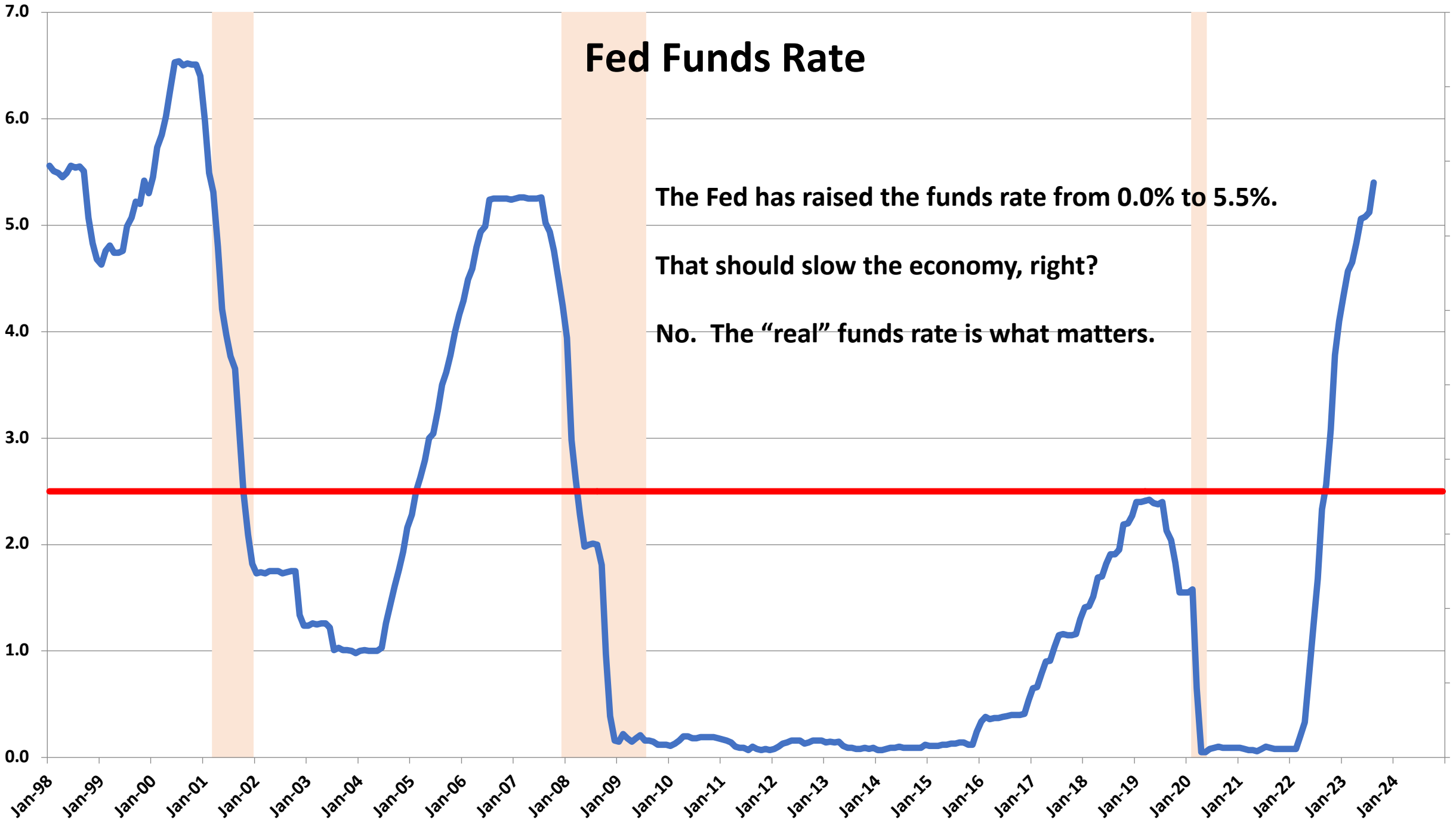




Economics. Explained.

How will the Fed respond to this?

Fed Funds Rate

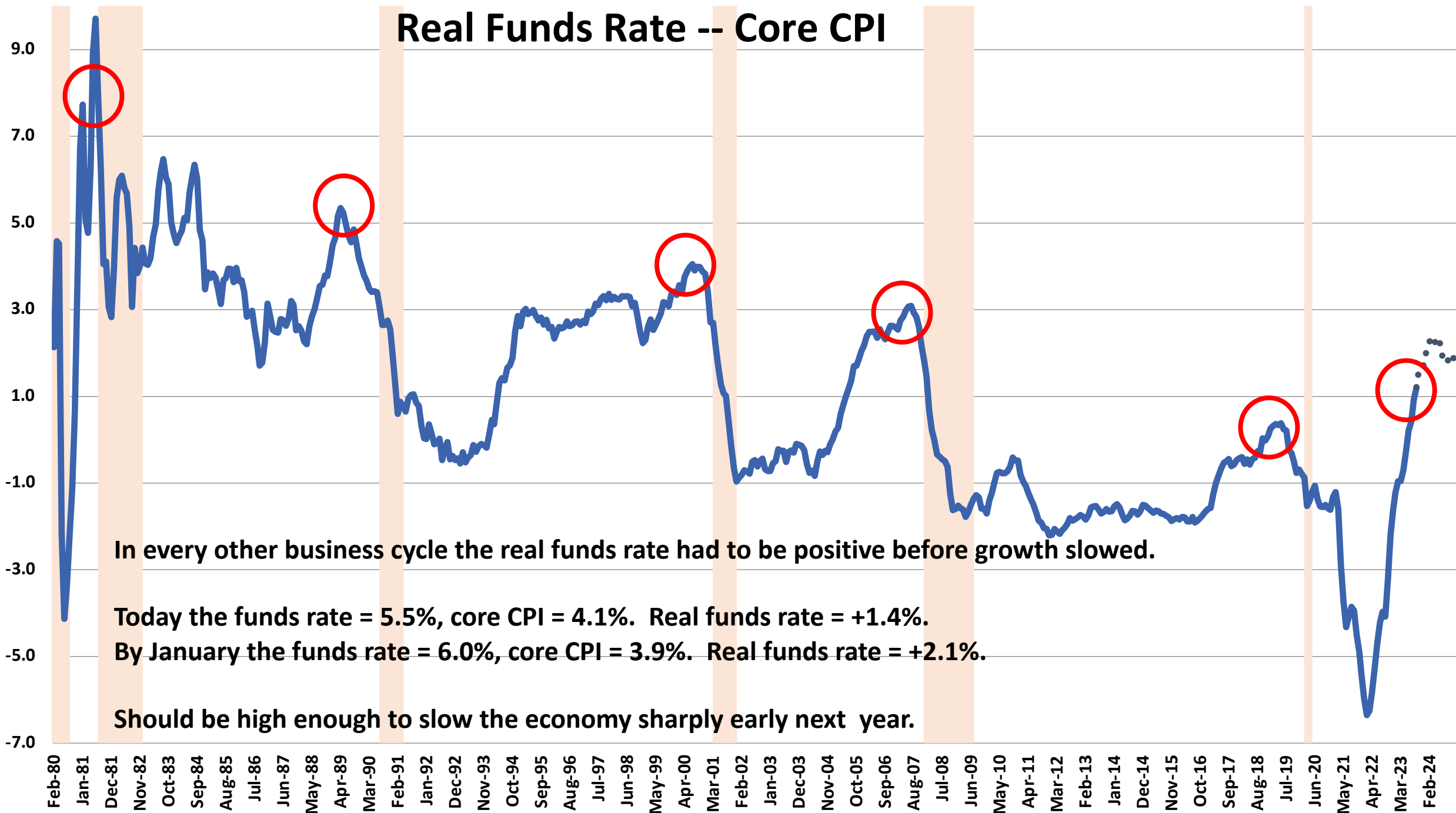


The Fed has raised the funds rate from 0.0% to 5.5%.

That should slow the economy, right?

No. The “real” funds rate is what matters.

Real Funds Rate -- Core CPI



In every other business cycle the real funds rate had to be positive before growth slowed.

Today the funds rate = 5.5%, core CPI = 4.1%. Real funds rate = +1.4%.

By January the funds rate = 6.0%, core CPI = 3.9%. Real funds rate = +2.1%.

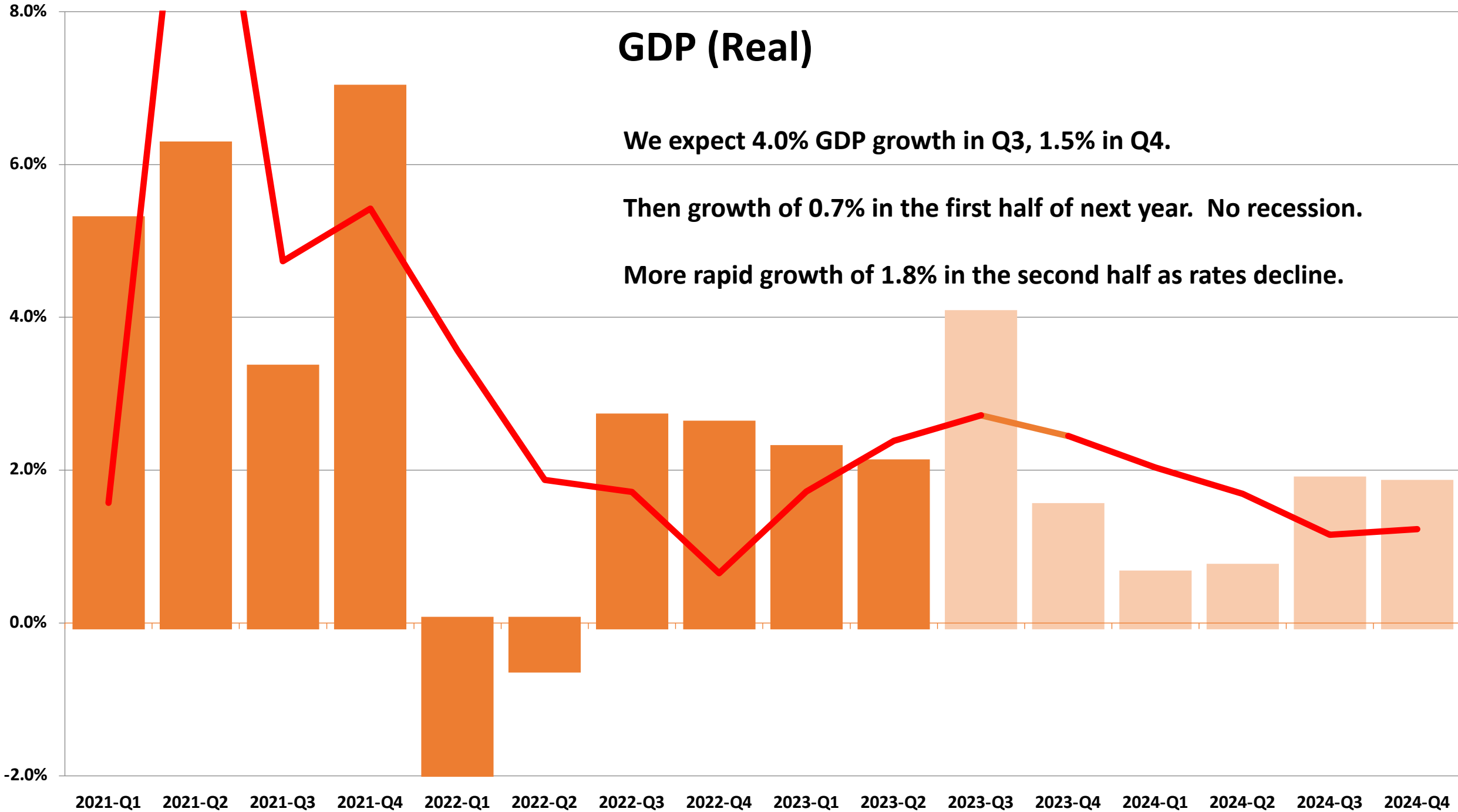
Should be high enough to slow the economy sharply early next year.

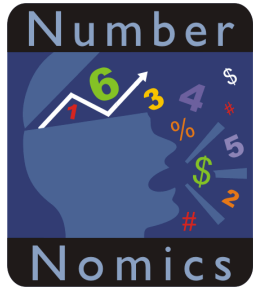
GDP (Real)

We expect 4.0% GDP growth in Q3, 1.5% in Q4.

Then growth of 0.7% in the first half of next year. No recession.

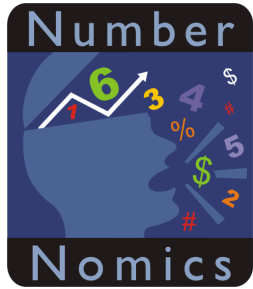
More rapid growth of 1.8% in the second half as rates decline.





Forecasts – 2023/2024

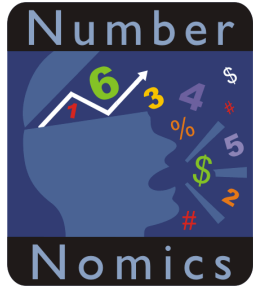
	2022	2023	2024
GDP Growth --	0.7%	2.4%	1.3%
Unemployment Rate --	3.5%	3.8%	3.8%
Core CPI--	5.7%	4.0%	3.2%
Fed Funds Rate --	4.1%	5.8%	4.8%
10-Year Note --	3.6%	4.7%	4.8%
30-Year Mortgage Rate --	6.3%	7.6%	6.6%



Economics. Explained.

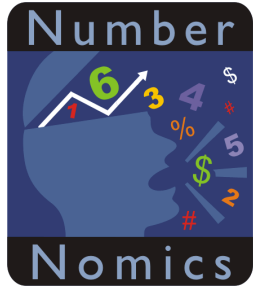
Soft Landing But...

Stephen D. Slifer
NumberNomics
www.numbernomics.com



A Mideast War Could Alter that Outcome –

- 1. Oil prices surge to \$120 per barrel.**
- 2. Transport. costs rise. Inflation returns.**
- 3. GDP growth slows in Europe, U.S.**

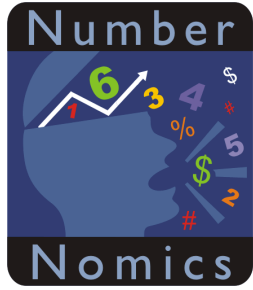


Economics. Explained.

Soft Landing – Most Likely But...

Recession? Stagflation?

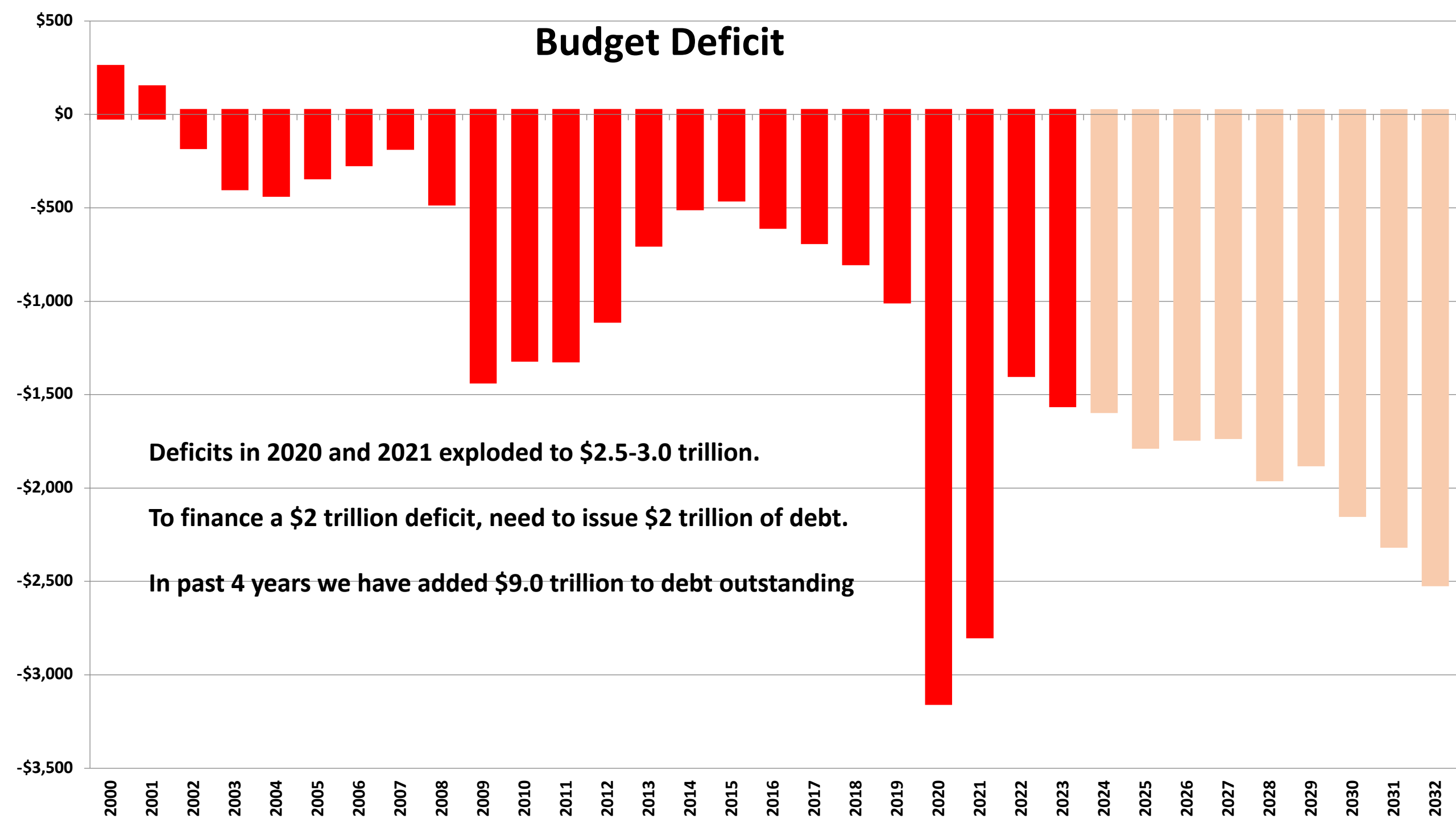
Stephen D. Slifer
NumberNomics
www.numbernomics.com



Economics. Explained.

Government Deficits and Debt

Budget Deficit



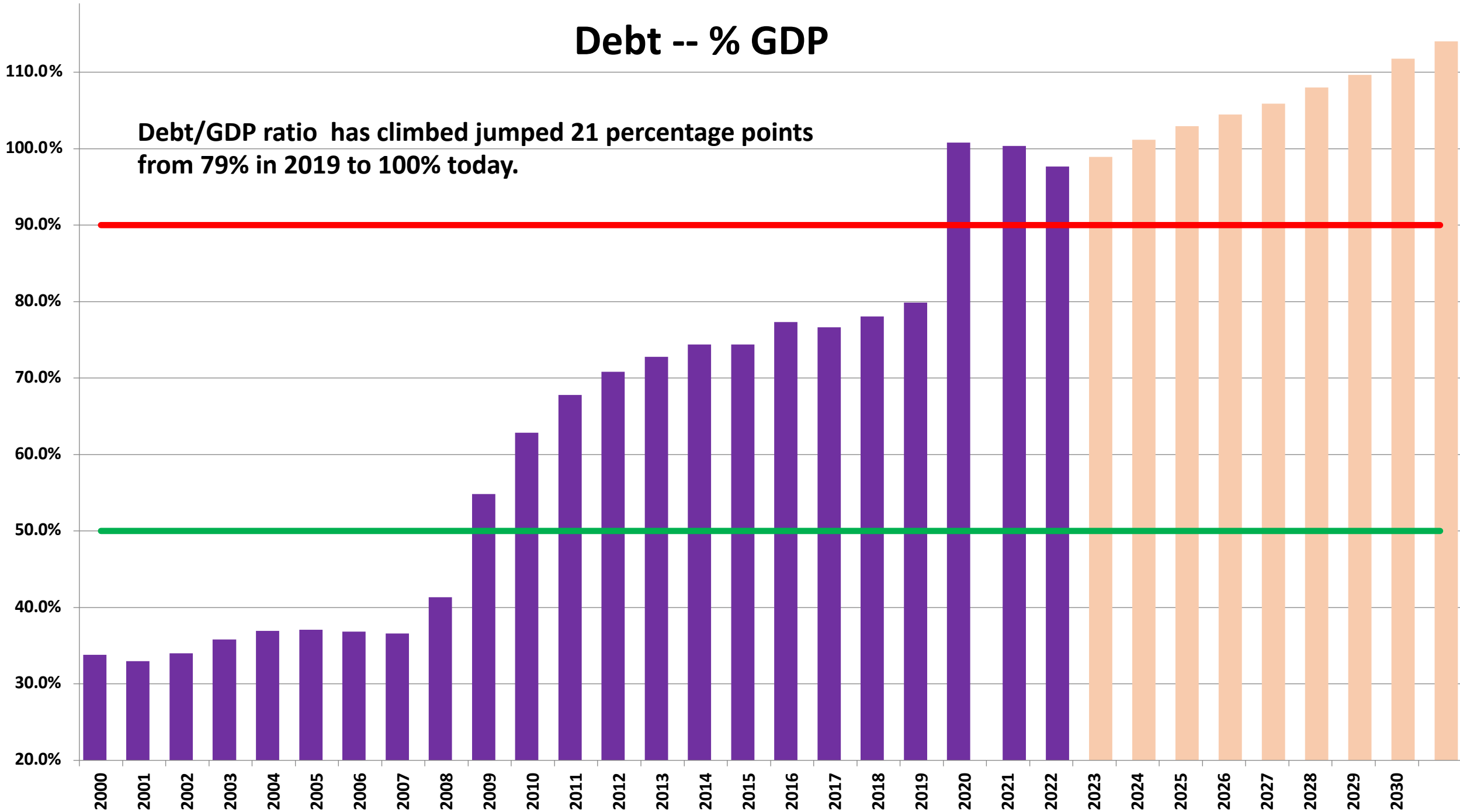
Deficits in 2020 and 2021 exploded to \$2.5-3.0 trillion.

To finance a \$2 trillion deficit, need to issue \$2 trillion of debt.

In past 4 years we have added \$9.0 trillion to debt outstanding

Debt -- % GDP

Debt/GDP ratio has climbed jumped 21 percentage points from 79% in 2019 to 100% today.



Debt -- % GDP



Record Debt/GDP ratio was 106% after WWII.

Dropped quickly after WWII as war spending declined rapidly.

Will not drop quickly now. Likely to climb to 119% by 2032.

Will be far higher if the economy falls into a recession.

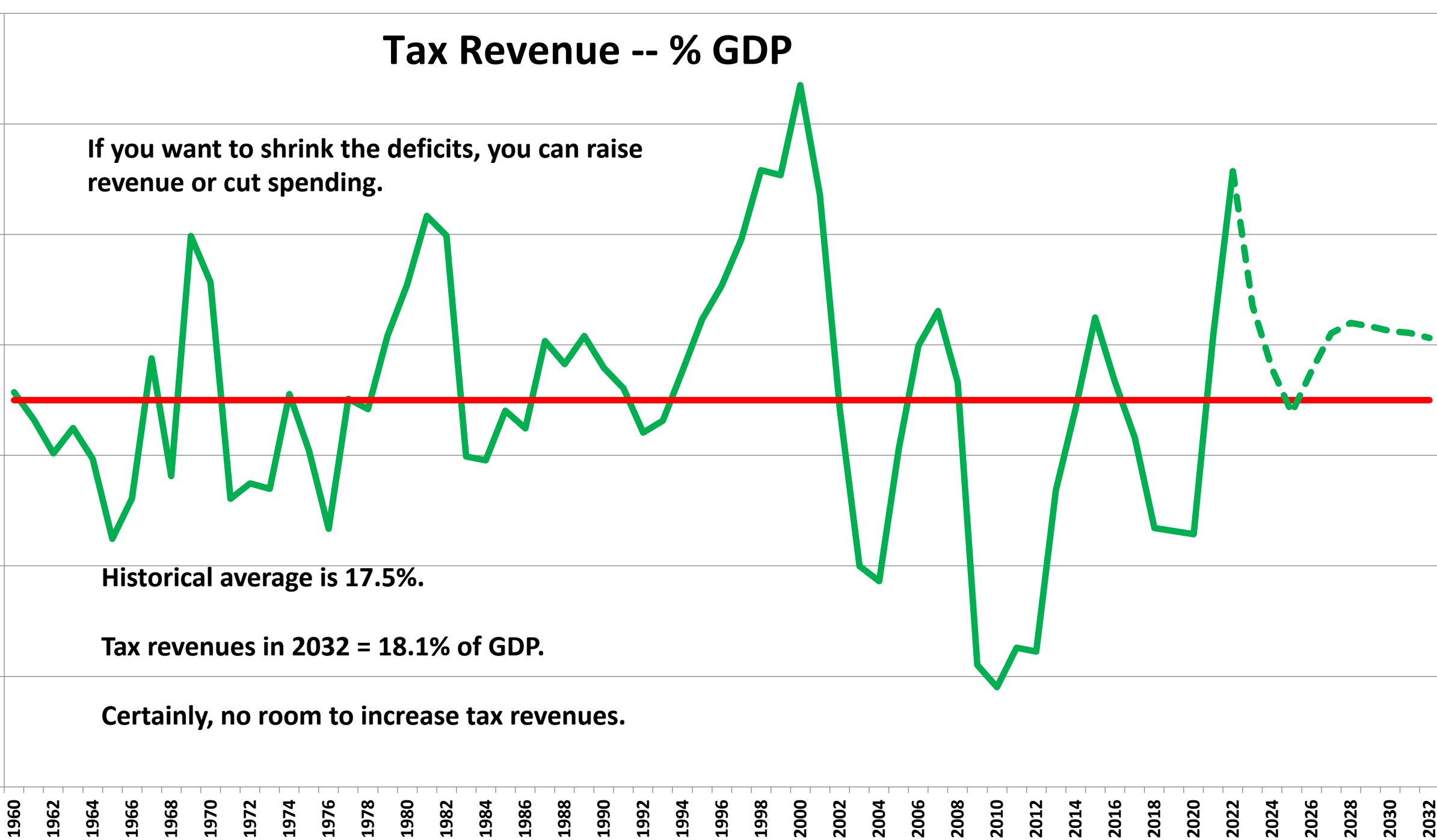
Tax Revenue -- % GDP

If you want to shrink the deficits, you can raise revenue or cut spending.

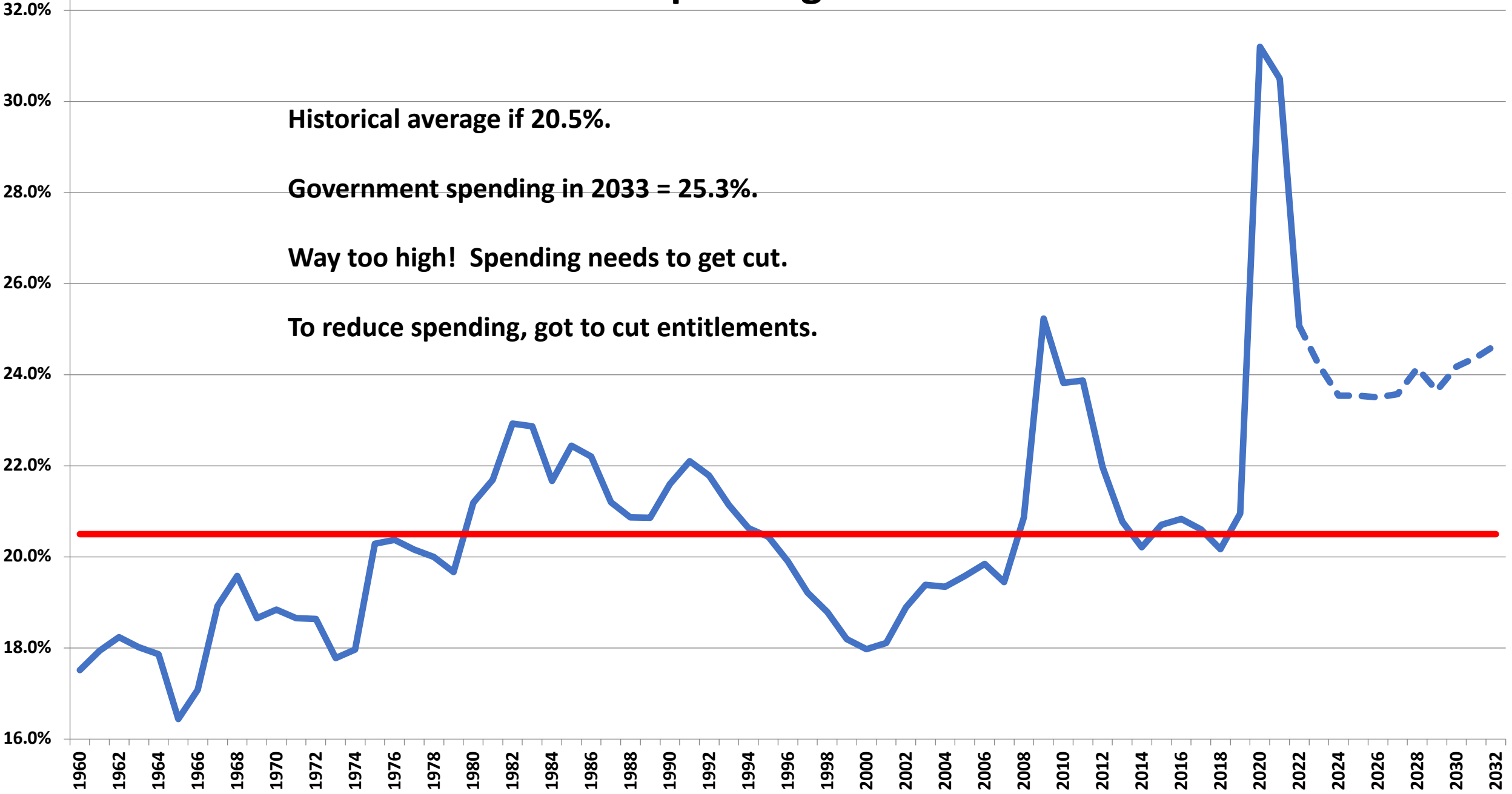
Historical average is 17.5%.

Tax revenues in 2032 = 18.1% of GDP.

Certainly, no room to increase tax revenues.



Government Spending -- % GDP

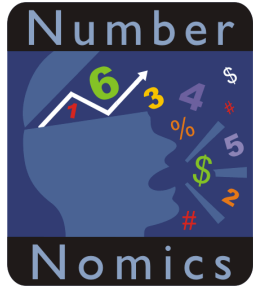


Historical average if 20.5%.

Government spending in 2033 = 25.3%.

Way too high! Spending needs to get cut.

To reduce spending, got to cut entitlements.

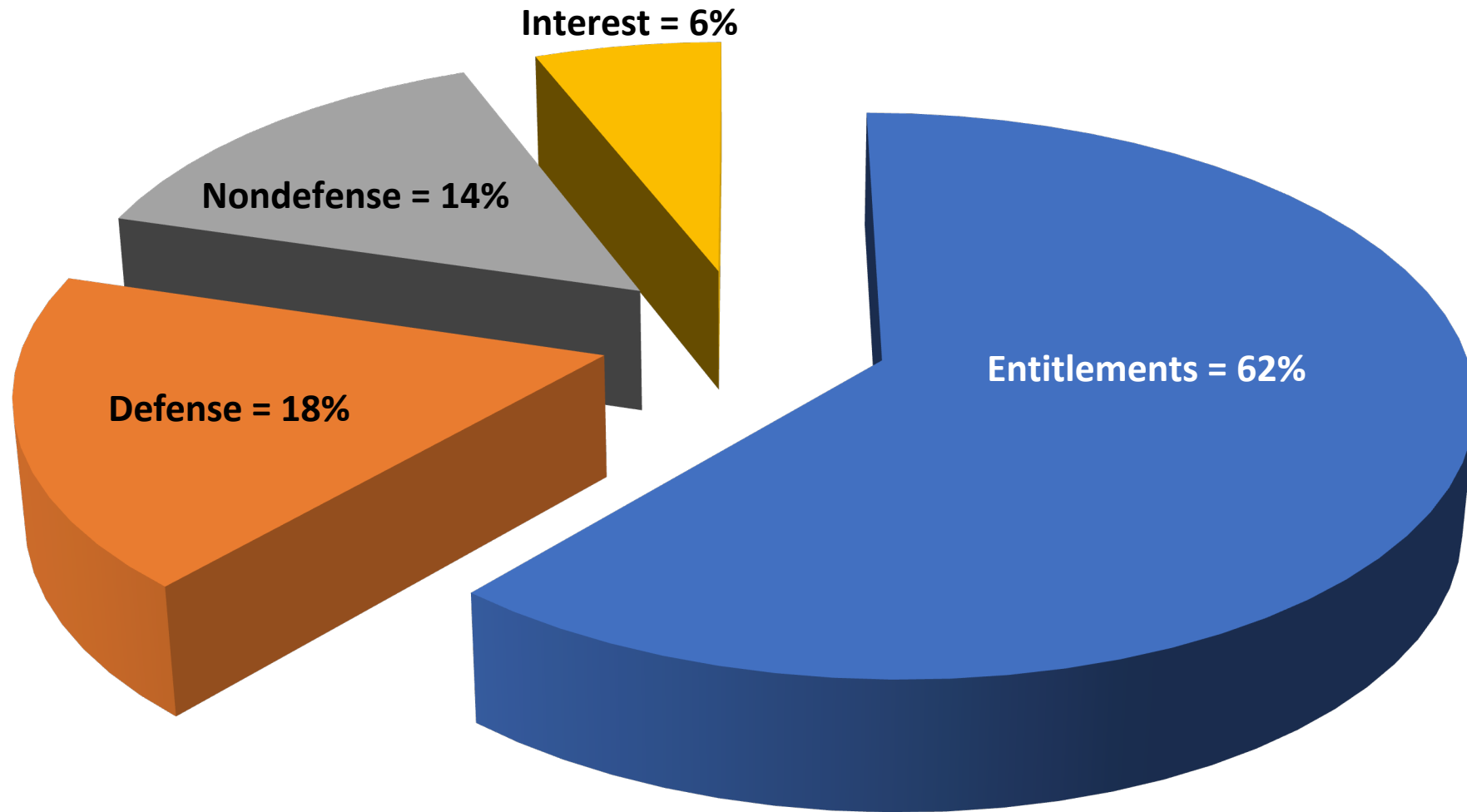


What are Entitlements?

Government payments to boost income.

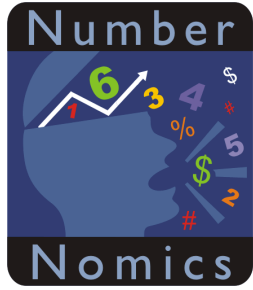
- 1. Social Security**
- 2. Medicare**
- 3. Medicaid**
- 4. Welfare Benefits**
- 5. Unemployment Benefits**

Government Spending



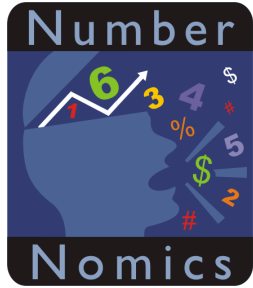
Entitlements such as Social Security, Medicare, and Medicaid are 62% or 2/3 of the pie.

They never disappear. No politician wants to cut entitlements. But it is inevitable. Why?



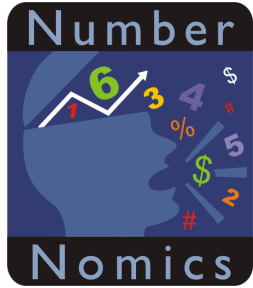
Economics. Explained.

**Medicare will be insolvent by 2031 –
8 years from now.**



Economics. Explained.

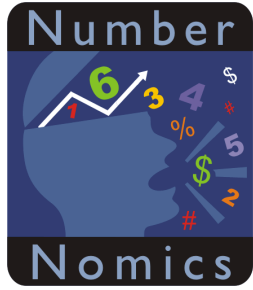
**Social Security will be insolvent by 2033 –
10 years from now.**



Economics. Explained.

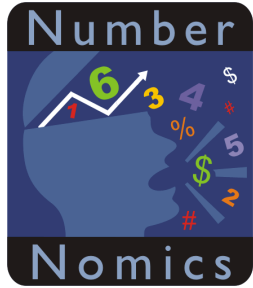
If Social Security and Medicare become insolvent:

- 1. A 10% cut in Medicare benefits in 2028.**
- 2. A 23% cut in Soc Sec benefits in 2034.**



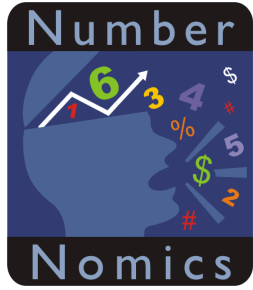
Economics. Explained.

We know how to solve the problems.



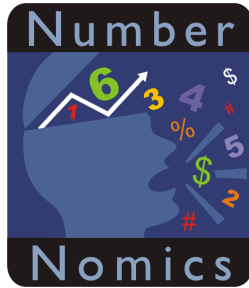
To fix Social Security we could:

1. Gradually raise retirement age.
2. Cut payments to high income earners.
3. Increase max income subject to tax.
4. Trim cost-of-living adjustments.



Economics. Explained.

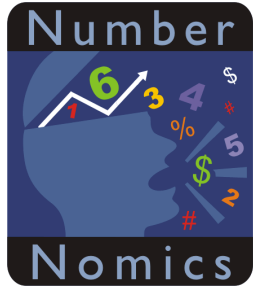
All that is missing is the will to do so.



Economics. Explained.

Nobody is talking about it.

**Little chance of any meaningful legislation
being passed with a divided government.**



Economics. Explained.

The Debt Problems are Imminent

Stephen D. Slifer
NumberNomics
www.numbernomics.com