

Inflation and recession: how bad, and how bad for gambling?

Date 23 June 2022

The economic forecasts from HM Treasury and KPMG

Forecast			
	2021	2022	2023
GDP growth	7.5	3.8	1.8
CDP growth per capita	7.4	3.5	1.5
Main components of GDP			
Household consumption ²	6.1	5.4	1.0
General government consumption	14.5	2.6	1.2
Consumer prices index (CPI) inflation	2.6	7.4	4.0

Source: H M Treasury.

Table 14: KPMG forecasts for the UK			
	2021	2022	2023
GDP	7.4	3.9	1.1
Inflation	2.6	7.9	4.1
Unemployment rate	4.5	3.9	4.3

Source: KPMG Global Economic Outlook:

The government predicts slower growth this year than last, slowing again in 2023.

Inflation is expected to average 7.4% this year and fall back to 4% next.

KPMG is a bit gloomier about inflation this year and growth next year.

These forecasts are both close to the consensus.

But the consensus has been consistently wrong since inflation started to overshoot targets in May 2021

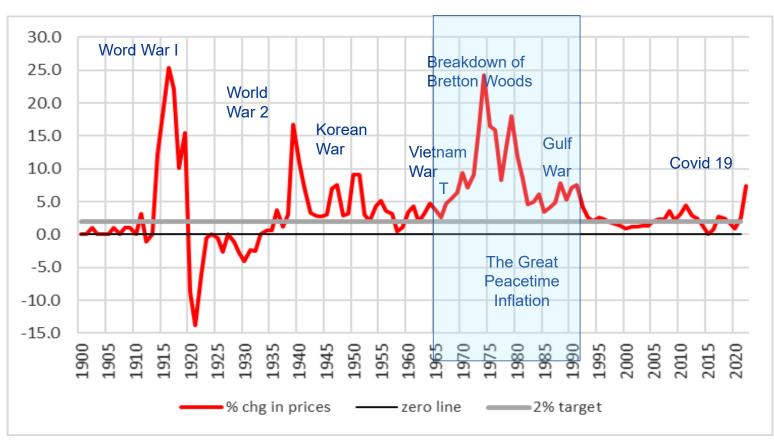
So here is an alternative scenario



Why inflation has been consistently worse than forecast

Why inflation happens: caused by shocks, often linked to war

UK Inflation since 1900



Each World War led to a massive expansion of public borrowing, leading to a rapid increase in the money supply.

Local wars have had a smaller, but visible, effect.

The breakdown of Bretton Woods was another shock

Every one of these shocks was global and led to high public borrowing, rapid monetary growth and inflation in many countries

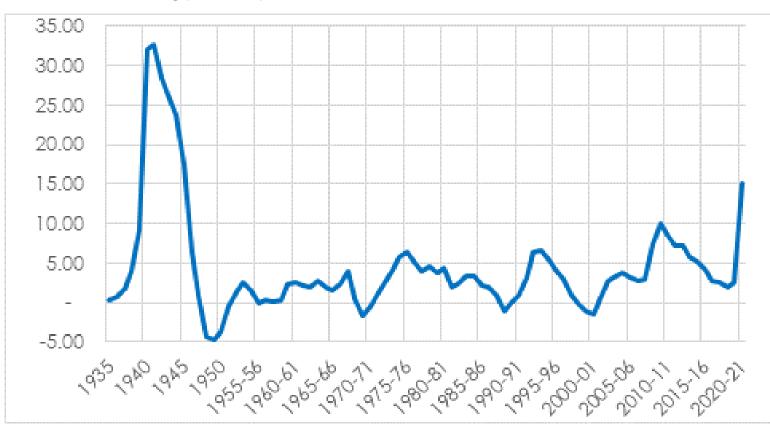
Covid 19 is another global shock, set to have similar results.

Source: ONS RPI data until 1988 then CPI, Official forecast for 2022 annual average



Covid created excess demand, just like mobilisation for war

Public sector borrowing (% of GDP)



Paying people who are not producing consumable goods and services is inherently inflationary.

The furlough scheme creates a problem of excess demand just like in wartime when we pay soldiers who produce nothing.

The rise in public borrowing in 2020-21 was the largest since 1939-40 and is inherently inflationary.

In WW2 inflation was kept down by rationing and price controls – not desirable and not present today.

Source: Office for Budget Responsibility



Lockdown meant excess money was not immediately spent

Household savings ratio



The savings ratio rose briefly to an all time high but:

- Not because of a loss of confidence (genuine recession); but
- Because spending opportunities were temporarily withdrawn

Deficient demand caused a fall in inflation to 0.8% in 2020

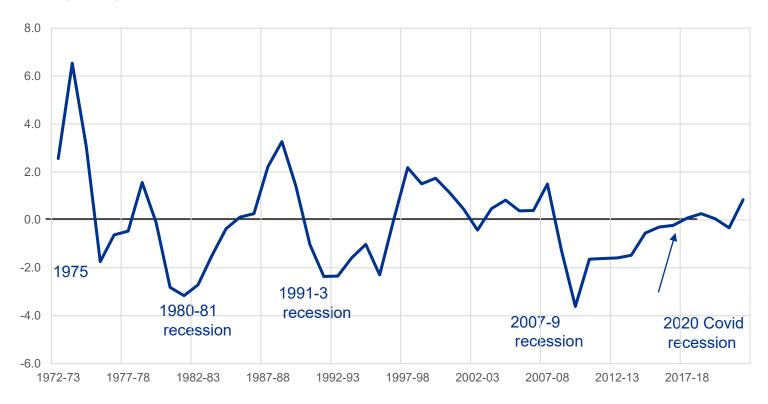
But there remains a monetary overhang, and as lockdown came to an end, this money was spent and inflation started to rise.

Source: ONS



The Covid recession was unlike any other....

The Output Gap as % of GDP



"[there is] only a small margin of spare capacity since the start of the pandemic, reflecting our judgement that most of the fall in output during 2020 should be thought of as a simultaneous contraction in demand and supply."

OBR March 2021

"It is far from clear that an additional monetary stimulus was required either last year or this."

Mervyn King, former Governor of the Bank of England, Oct 2021

Source: Office for Budget Responsibility



...yet it was treated with QE, just like the 2009 recession

Growth of the broad money supply since Covid struck (£m)



The (necessary) furlough scheme was not funded by taxation or gilt sales but by printing money (QE).

As a result, from March 2020 to October 2021 the money supply increased by 16 per cent.

Over the same period, nominal GDP has risen by only 4 per cent. There was little spare capacity, so the monetary increase is inflationary.

Source: Bank of England



The same story is being played out across the Western world

		Canada	France	Germany	Italy	Japan	Spain	UK	US
Inflation target		2	2	2	2	2	2	2	2
Consumer price index (latest 12 month % change)		6.7	4.5	7.3	6.5	1.2	9.8	6.2	8.5
Money supply growth (% change from Q1 2020 to Q4 2021)		17.7	17.2	17.2	17.2	10.6	17.2	18	36.5
Government deficit % GDP:	2020	-11.4	-9.1	-4.3	-9.6	-10.3	-11	-9.2	-15.3
	2019	0	-3.1	1.5	-1.5	-2.9	-2.9	-2.2	-6.4

Source: OECD

In all the major economies except Japan (which had a far smaller pandemic);

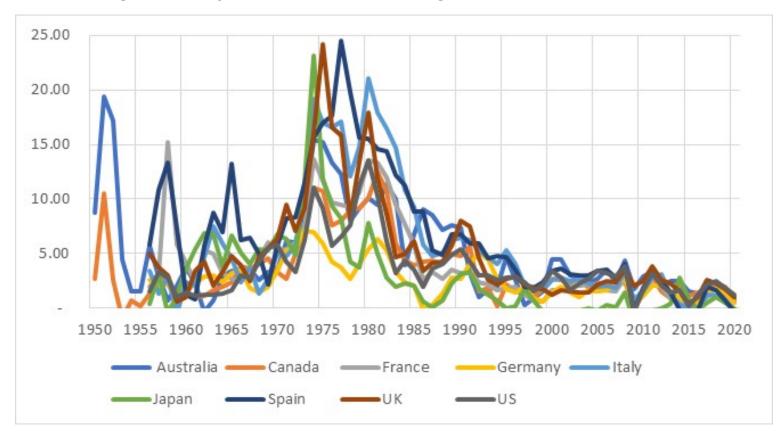
- Measures to deal with the pandemic led to public sector deficits and rapid monetary growth.
- Inflation over the past 12 months has been well above target.
- The US leads the way with the biggest deficit, the fastest money growth and the second worst inflation problem despite being sheltered from the high gas prices afflicting Europe.

There were similar widespread policy errors in the 1970s, led by the US, with dire inflationary results



So are conditions in place for a re-run of the Great Inflation?

We can use regression analysis to assess the relative weight of these factors



OECD Source:

Similarities:

Large US government deficit injecting money into the system Global policy errors leading to excess demand in many countries at once

Huge rises in energy prices pushing up inflation everywhere

Differences:

Policy makers accustomed to floating exchange rate, unlike in the aftermath of the breakdown of **Bretton Woods**

Inflation expectations may still be anchored by targets, which are still in place

Independent central banks more likely to take corrective action to hit inflation targets compared with the 1970s



Key drivers of inflation and their estimated effects

Constant term	2.59
Output gap as % GDP two years ago	0.76
Public deficit as % GDP two years ago	0.72
Broad money % pa three years ago	0.21
Oil & gas prices % changes weighted by shares of GDP	1.03
Inflation targeting dummy	3.69

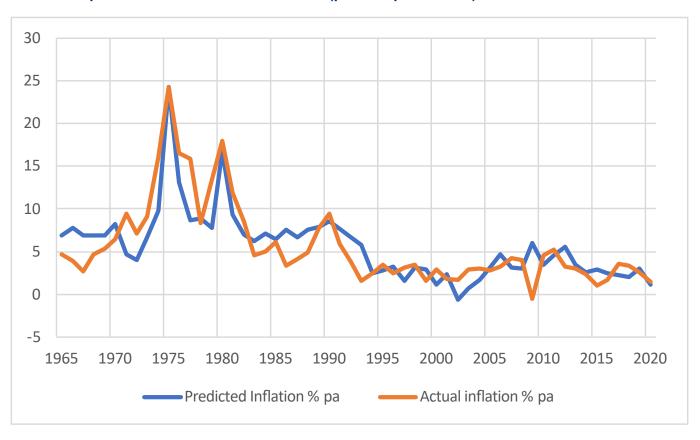
Regression Statistics	
R Square	0.71
Standard Error	2.73
Observations	57

Source: author's calculations



The equation provides a convincing fit for past data...

Consumer price inflation from 1965 to 2023 (percent per annum)



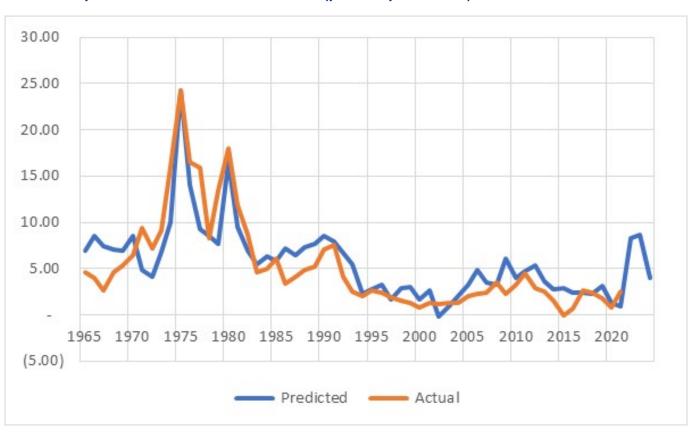
Inflation largely depends on past values of explanatory variables.

So inflation prospects for 2022 and 2023 can be calculated from known data.



...and predicts sharply higher inflation both this year and next

Consumer price inflation from 1965 to 2023 (percent per annum)



Inflation forecast to average

- **8.25%** in **2022**; rising to
- **8.7% 2023 then** falling to
- 4% in 2024

That assumes:

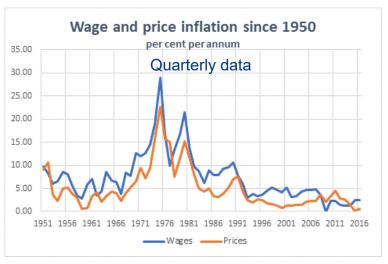
- energy prices in 2022 and 2023 are on average unchanged from 2021; and
- that the OBR prediction of falling public borrowing this year is not invalidated by new government measures



Higher inflation and declining monetary growth will lead to a recession

The start of a new wage-price spiral?

This year's wage increases are an important reason why inflation is unlikely to decline sharply next year





Source:

A Millennium of Macroeconomic data for the UK

Source:

ONS

The UK labour market is tight, with more vacancies than people available for work

Competition for scarce labour is driving up wages.

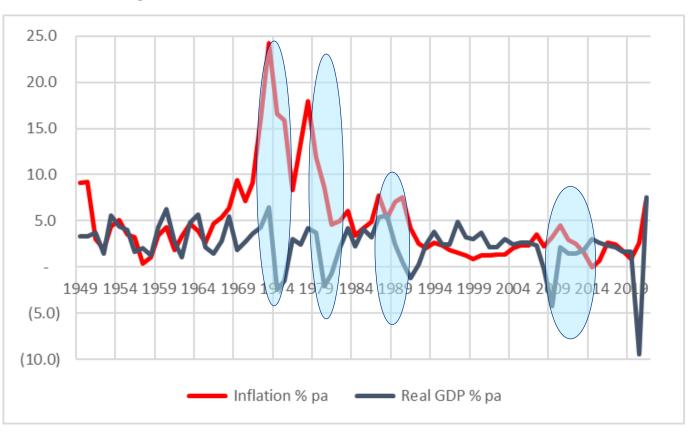
The current increase in wage inflation is the sharpest since 1976

Companies cannot afford to absorb these costs and banks certainly won't lend to fund them

So higher wages lead inevitably to higher prices.- and hence to the next round of wage demands.

High inflation is worrying because eliminating it is always painful

Inflation and GDP growth



It took major recessions to eliminate the inflation associated with each of the two oil price hikes

It took another recession to eliminate the inflation following the Lawson boom of 1989

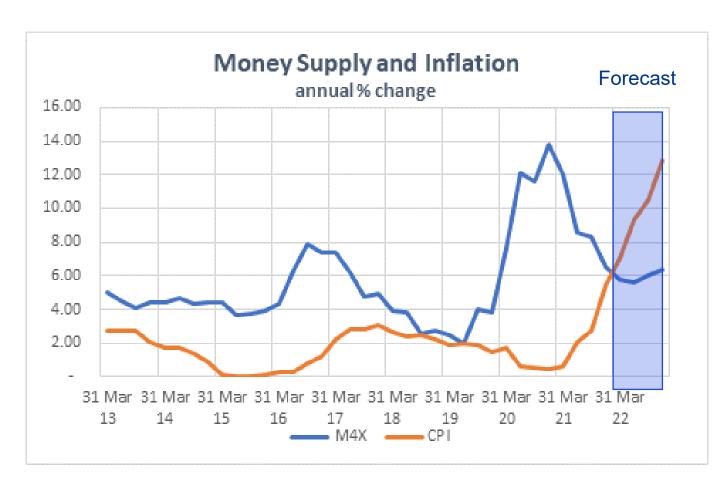
The recession following the banking crisis of 2007-8 got inflation back onto its 2% target from a peak of nearly 5%.

It will take another recession to eliminate the current inflation.

ONS RPI data until 1988 then CPI,. Source:



Monetary growth rate now well below inflation



Money growth was boosted by QE in 2020, but has been slowing sharply as QE ended.

Inflation has risen sharply and will continue to rise this year.

So monetary growth now inadequate to finance new transactions

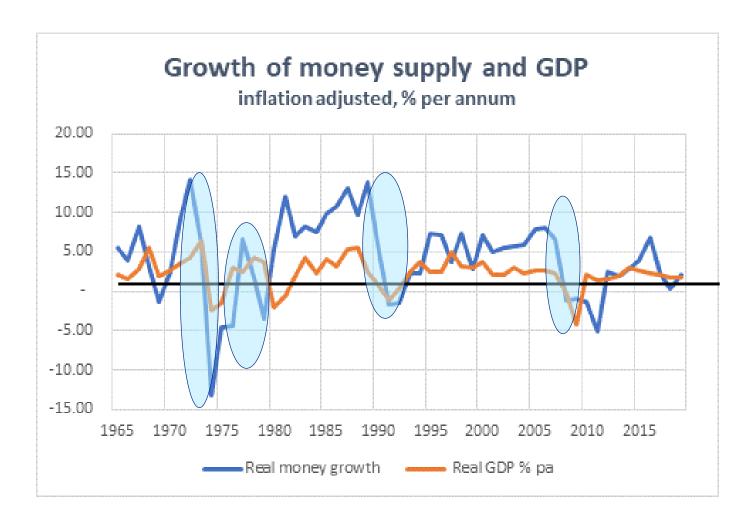
In real terms monetary growth is now minus 6%.

Strong downward pressure on economic activity.

ONS and Bank of England Source:



Negative real monetary growth has always led to recession



Sharp declines in the growth of the real money supply presaged recession in 1972-4, in 1977-9, in 1989-91

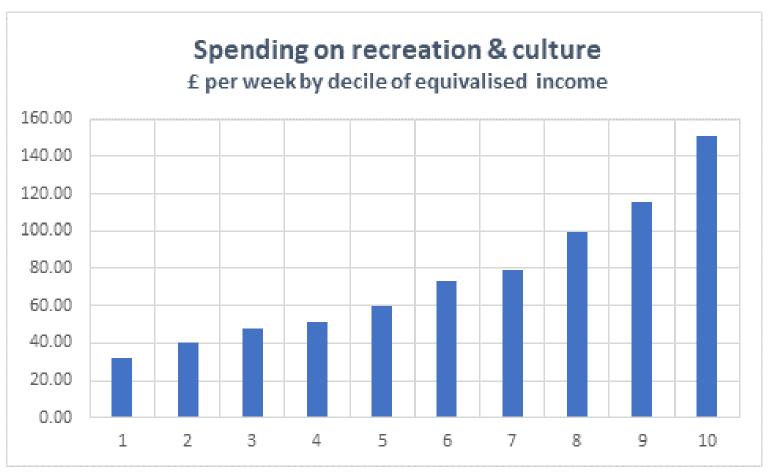
The decline of around 6% currently underway is already as great as in 1976-7.

Recession looks almost inevitable.

Gambling demand resilient in economic downturns

The evidence from Family Spending data

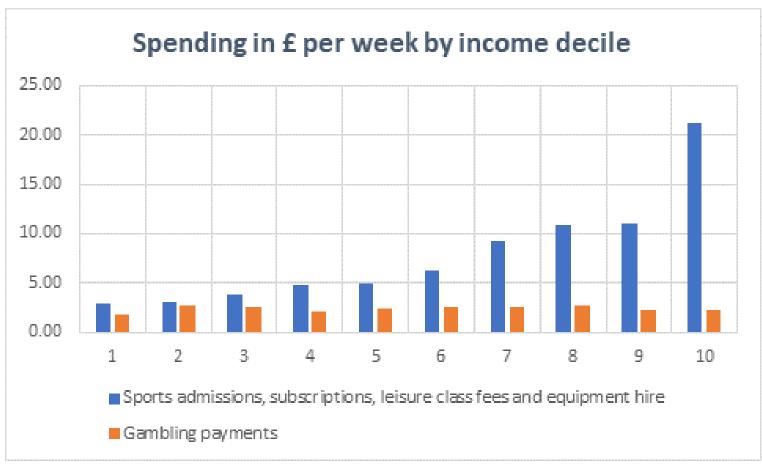
Spending on leisure activities usually increases with income



Source: ONS Living Costs and Food Survey 2019-2020



But gambling is a notable exception



Source: ONS Living Costs and Food Survey 2019-2020



Gambling is surprisingly like milk, sugar or potatoes...

Necessary spending: relatively invariant to income					
	£/week average	Ratio rich/poor			
Cigarettes	2.6	0.77			
Milk	2.1	0.94			
Baby toiletries and accessories (disposable)	0.6	0.94			
Bus and coach fares	1.5	1.00			
Gambling payments	2.4	1.03			
Confectionery products	8.0	1.04			
Other tubers and products of tuber vegetables	1.8	1.08			
Electricity	12.5	1.10			
Margarine, other vegetable fats and peanut butter	0.6	1.12			
Toilet paper	1	1.15			

Survey covers some 6000 households and around 180 spending categories

Carries ONS seal of approval as a national statistic.

Has been going, with periodic changes, since 1957

Provides essential input to government statistics, such RPI/CPI and breakdown of household spending in National Income statistics.

ONS Living Costs and Food Survey 2019-2020 Rich denotes top 3 income deciles, poor denotes bottom 3 deciles Source:



and unlike most items, where spending rises with income

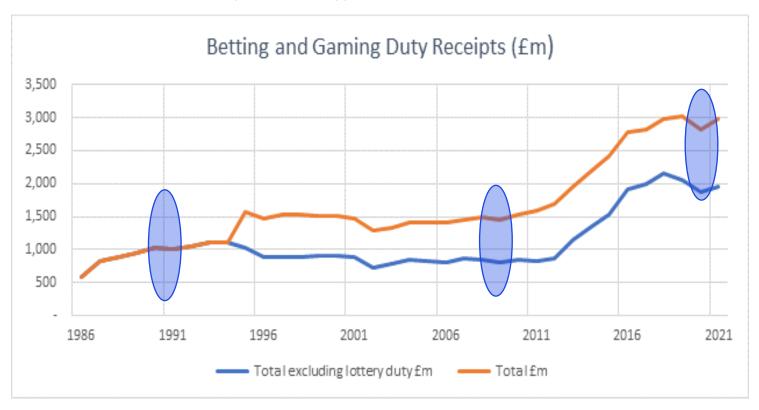
Discretionary spending: relatively variable with income				
	£/week average	Ratio rich/poor		
Clothing	18.7	2.54		
Glassware, tableware and household utensils	1.8	3.07		
Total expenditure	587.9	3.59		
Alcoholic drinks (away from home)	8.3	4.15		
Equipment for sport, camping, open-air recreation	1.7	5.38		
Medical insurance premiums	2.4	6.46		
Rail and tube fares	4.6	8.00		
Income tax, payments less refunds	105.2	11.90		
Life assurance and contributions to pension funds	34.7	12.15		

ONS Living Costs and Food Survey 2019-2020 Source:



Is gambling recession-proof?

What is true across the income spectrum also appears to be true when income falls over time



The recessions of 1991, and 2007 had no visible effect on Betting and Gaming duty. There were some offsetting factors in 2007-9.

The Covid pandemic did hit gambling but that was due to government measures which directly impacted much gambling activity:

- Lockdown
- Social distancing
- Cancellation of sporting events

HMRC Source:



A simple message: more to fear from inflation than recession

Illustrative accounts of typical large gambling company in a normal year

	Base	case	10% higher inflation and recession		
£m	Retail	Online	Retail	Online	
Revenue	720	740	720	740	
Duties and cost of sales	-160	-200	-160	-200	
Gross profit	560	540	560	540	
Administrative expenses	-420	-370	-462	-407	
Depreciation and amortization	-70	-50	-70	-50	
Operating profit	70	120	28	83	

[&]quot;Average total pay growth for the private sector was 8.2% in January to March 2022, and for the public sector was 1.6% in the same time period; the finance and business services sector showed the largest growth rate (10.7%), partly because of strong bonus payments"

ONS Average weekly earnings survey, May 2022. Source:



The good news: gambling demand very resilient in economic downturns

The evidence from time series data

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