Stable Prices, Stable Economy

Keeping Inflation in Check Must Be No. 1 Goal of Monetary Policymakers

By William Poole and David C. Wheelock

The Federal Reserve Act as amended in 1977 directs the Federal Reserve to pursue monetary policy to achieve the goals of “maximum employment, stable prices and moderate long-term interest rates.” The Federal Reserve and all central banks have also long been expected to promote financial stability. Specifically, central banks have been expected since the 19th century to serve as lender of last resort to the banking system by providing liquidity to prevent financial crises and disruptions in the payments system.

Are the goals of maximum employment, stable prices, moderate interest rates and financial stability compatible with one another? Many people believe that they are not. Conventional wisdom holds that if monetary policy is too focused on controlling inflation, for example, then employment and output growth will likely fall below their potential, and financial markets will be less stable than they otherwise could be.

The idea of stepping on the monetary gas pedal to boost employment and output growth, or to protect against financial losses, may seem appealing. Indeed, until recently, many economists believed that moderate inflation makes the economy perform better. However, a growing number of economists today believe that monetary authorities can best promote financial stability and economic growth by making a firm commitment to maintaining price stability. There is little evidence that expansionary monetary policy can increase employment or economic growth, except perhaps for brief periods, and there is no evidence that inflation fosters financial stability. On the contrary, history is full of examples of how an unstable price level can wreck a financial system and harm the economy.

Two Views about Inflation

On the subject of inflation, most economists fall into one of two camps. One camp believes that moderate inflation helps promote full employment, economic growth and stable financial markets. Inflation is seen as enabling labor and product markets to function more smoothly in the face of shocks that could otherwise reduce employment or output. Some in this camp believe that central banks can boost employment and output growth more or less permanently by allowing the inflation rate to rise.

The first camp had its heyday in the 1960s. At that time, the data suggested the existence of an exploitable tradeoff between inflation and unemployment—the so-called Phillips Curve, named after the economist A.W. Phillips, who first documented that the unemployment rate and changes in wage rates moved in opposite directions in the United Kingdom.

The Phillips Curve made monetary policymaking seem beguilingly simple. Choose a little more inflation, and unemployment would fall; accept somewhat higher unemployment, on the other hand, and inflation would be a bit lower. Policymaking was viewed as simply a matter of selecting from among a menu of inflation and unemployment options.
Several influential economists argued that this menu could be improved upon if policymakers were willing to discard their old-fashioned obsession with price stability. Allow some inflation, these economists argued, and the labor market would operate more efficiently, employment would rise and the economy would grow faster.

There were some notable dissents from this view. Milton Friedman and Edmund Phelps, both of whom later were awarded the Nobel Prize, argued that inflationary policies do not boost employment or economic growth in the long run. Instead, attempts to use monetary policy to engineer higher employment or faster growth result in ever higher inflation but no more employment or growth than was possible with a stable price level, they said.

Events also put a dent in the arguments of the first camp. Inflation began to rise in the mid-1960s, and it climbed still higher and became more volatile in the 1970s. Higher inflation did not bring about higher employment or faster growth, however. On the contrary, as shown in Figure 1, the unemployment rate was higher on average during the 1970s than it had been during the 1950s and 1960s. The unemployment rate fell in the 1980s and 1990s, albeit slowly, as inflation came down.

**The Benefits of Price Stability**

Under the weight of persuasive reasoning and empirical evidence, many economists abandoned the first camp and joined a growing second camp of economists, who believe that central banks can best promote high employment and economic growth, as well as financial stability, by focusing on the goal of price stability.

“Price stability” is usually interpreted to mean a low and stable rate of inflation maintained over an extended period of time. In our view, the ideal rate of inflation is zero, properly measured. Biases in price indexes imply that, in practice, price stability will likely be consistent with a small positive rate of measured inflation, say 0.5 to 1 percent, depending on the specific price index one looks at. Further, price stability does not mean that the price index is constant. Monetary policy could never eliminate every wiggle in the inflation rate; nor should policymakers try to do so.

Price stability means that inflation is sufficiently low and stable so as not to influence the economic decisions of households and firms. When inflation is low and reasonably stable, people do not waste resources attempting to protect themselves from inflation. They save and invest with confidence that the value of money will be stable over time.

In a market economy, consumers and firms base their consumption and investment decisions on information derived from prices, including asset prices and returns. Efficient allocation of economic resources depends on the clarity of signals coming from the price system, as well as the clarity of signals from governments and central banks about economic policy.

Uncertainty about the price level makes it difficult for firms and households to determine whether changes in individual prices reflect fundamental shifts in supply and demand or merely changes in the overall rate of inflation. By eliminating this uncertainty, a monetary policy that maintains long-run price stability eliminates a potential drag on the efficient allocation of resources and, hence, on economic growth.

Long-run price stability contributes to financial stability in a similar fashion. An unstable price level can lead to bad forecasts of real returns to investment projects and, hence, to unprofitable borrowing and lending decisions. Unexpected bouts of inflation, for example, tend to encourage optimistic forecasts of real returns. Errors in distinguishing nominal and real returns result in misallocation of resources and eventually to financial distress that would not occur if the price level was stable. Business decisions based on expectations of continuing inflation often turn out badly when inflation falls, resulting in higher default rates and business failures. Outright deflation is particularly notorious because a falling price level increases the real cost of servicing outstanding debt.

Price stability is the most powerful tool the central bank has to promote economic growth, high employment and financial stability. Price stability also enables monetary authorities to pursue secondary objectives, including the reduction of fluctuations in real economic activity and the management of financial and/or liquidity crises. These
Hyperinflations Make the Great Inflation Seem like a Walk in the Park

Many countries have seen the deleterious effects of price level instability, and some have had far worse experiences than the United States has had. Many lesser developed countries have experienced extreme inflation at one time or another, often with disastrous consequences for financial stability and economic growth. Perhaps the most obvious examples of the destructive force of inflation are hyperinflations, such as those occurring in Germany after World War I, in various eastern European countries after World War II and in Latin America and Africa more recently. In every case, hyperinflation was associated with collapsing financial markets and a wrecked economy.2

Countries that have very high rates of inflation typically have weak institutions, including poor enforcement of contracts and property rights, and inefficient tax systems (and consequently large budget deficits). Many countries have made efforts to improve their political and economic institutions, and these countries are now experiencing lower inflation and higher economic growth. Several have made price stability the paramount objective of monetary policy and have adopted formal inflation targets as a way of anchoring inflation expectations.

The advantage of announcing a quantitative target for inflation, especially when coupled with institutional reforms, such as increased operating independence for central banks, is that it reduces uncertainty about the long-term inflation rate. This, in turn, reduces inflation risk premiums in interest rates and promotes long-term contracting and investment. These benefits can be especially important for countries that have had a history of high or unstable inflation, though presumably any country could benefit from announcing and sticking to a specific numeric inflation objective.

Lessons from U.S. Economic History

Recent experience supports the view that price stability contributes to financial stability and economic growth. Since the mid-1980s, the United States has seen a reduction in the volatility of both output growth and inflation in an environment that closely approximates price stability. As shown in Figure 2, the variability of both real GDP growth and inflation reached postwar lows during the 1990s and first six years of the 2000s. Further, there have been temporary financial upsets associated with various shocks, such as the Sept. 11, 2001, terrorist attacks and, more recently, increased defaults in the subprime mortgage market; these events have had little impact on the economy as a whole.

With inflation expectations well-anchored, the Fed has been able to provide liquidity in response to financial disruptions without causing uncertainty about the long-run goals of policy. This confidence in the Fed has probably made such interventions more effective than they would otherwise have been.

Conclusion

The inflation record of the United States and many other countries over the past 20 years has been far better than it was from the mid-1960s to the early 1980s. The recent period has also had a better record of economic growth and financial stability than the preceding years of high and highly variable inflation. Both logic and history suggest that low and stable inflation has contributed to improved real growth and financial stability.

Low inflation and well-anchored inflation expectations have also likely enhanced the Fed’s ability to respond to the declines in output growth and financial upsets that have occurred. The Fed responded aggressively to encourage economic recovery from the 2001 recession. The Fed’s interest rate cuts did not trigger widespread fears of higher inflation because the public had confidence in the Fed’s commitment to price stability. If expected inflation had risen, long-term interest rates would likely have risen and hampered efforts to encourage economic recovery. Hence, price stability likely made the Fed’s easing more effective than it otherwise would have been.

![Zimbabwe’s inflation, the highest in the world, stood at 3,700 percent last spring. The rate has continued to skyrocket—to the point where many say it’s impossible to calculate.](DESMOND KWANDE/AFP/GETTY IMAGES)

![Variability of Inflation and GDP Growth](www.stlouisfed.org)
Financial markets have confronted a number of shocks in recent history, including the Asian financial crisis and Russian government bond default in 1998, the terrorist attacks of 9/11 and, more recently, the increase in sub-prime mortgage defaults in 2007. Each time, the Fed quickly provided additional liquidity, and the financial disruptions were contained. Again, well-anchored inflation expectations likely made the Fed’s job easier and kept these shocks from having a more serious impact on the economy.

Under the Federal Reserve Act, the Fed operates with a dual mandate to encourage maximum employment and price stability, as well as to act as lender of last resort to the banking system. These goals are not incompatible but fundamentally the same goal. Maintaining low and stable inflation is central to achieving maximum employment and the highest possible rate of economic growth. Price stability also tends to promote financial stability and enhance the central bank’s ability to respond to financial disruptions that do occur. Maintaining price stability does not require that the central bank come down hard on every uptick in the inflation rate, but a disciplined response is required when the inflation rate threatens to rise in a sustained fashion or to fall into deflation.

Central bankers need to apply their best judgment—and they will not always be correct in those judgments. But if they have a good record, and if the public retains confidence that the central bank will correct its mistakes, errors in judgment will not do lasting damage. 

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Price Instability Knocked Economy Off Its Feet in 1930s, 1970s

 Whereas the recent record demonstrates the benefits of price stability, there is no shortage of evidence that an unstable price level leads to financial instability and a poorly performing economy.

Sad, history is full of examples where mismanaged monetary policy resulted in financial instability and serious disruption of economic activity. The experiences of the United States during the Great Depression of the 1930s and the Great Inflation of the 1970s provide two such examples.

The Great Depression is a classic illustration of how financial disruptions can wreak havoc on the economy. Policy mistakes by the Federal Reserve were critical, as Milton Friedman and Anna Schwartz demonstrated in their A Monetary History of the United States, 1867-1960. The Fed’s principal error was in failing to act as lender of last resort to the banking system as banking panics and other financial shocks swept across the United States. These shocks included the stock market crash in October 1929; banking panics in October 1930, March 1931 and January-February 1933; and a massive withdrawal of gold reserves from U.S. banks when Great Britain left the gold standard in September 1931.

The Federal Reserve responded to the stock market crash by lowering its discount rate and pumping reserves into the banking system. The Fed did not react aggressively to subsequent crises, however. Bank runs and gold outflows bled reserves from the banking system, which reduced the money stock and allowed deflation to take hold, as shown in Figure 3.

Deflation drove up the real cost of servicing debt and led to widespread business failures and unemployment. Falling incomes and increased loan defaults put further strain on banks and other financial firms. More than 1,000 banks were forced to suspend operations each year between 1930 and 1933.

The monetary hemorrhage finally ended when the entire banking system, including the Federal Reserve banks, was shut down by government decree in March 1933. The money stock and price level began to rise once confidence in the banking system had been restored. The real interest rate fell as the price level rose, encouraging business investment and consumer spending, and the economy began to recover.

**Figure 3**

**Financial Shocks and Deflation during the Great Depression**

![Figure 3: Financial Shocks and Deflation During the Great Depression](image-url)


The figure plots monthly data on a measure of the money stock consisting of currency and commercial bank deposits.
Inflation Is No Better

The Great Depression illustrated how deflation can wreck a financial system and economy. The Great Inflation, by contrast, showed the destructive power of inflation. Inflation began to rise in the mid-1960s. Political pressure for low interest rates, combined with the common view among economists that a moderately inflationary monetary policy would boost economic growth and raise employment, gave policy an inflationary bias. But subsequent economic performance discredited the notion that higher inflation could produce faster employment or growth. If anything, the data indicated just the opposite. As inflation rose still higher and became more variable, the average growth rate of the U.S. economy slowed, and business cycle fluctuations became more pronounced.

Inflation, and especially inflation instability, proved disruptive for financial markets and firms. Thrift institutions—mutual savings banks and savings and loan associations—were particularly devastated by inflation. After World War II, thrifts became the mainstay of housing finance in the United States. These financial intermediaries borrowed short-term funds to make long-term loans. As inflation premiums became built into market interest rates, short-term interest rates rose much more rapidly than did the return on the thrifts’ assets, which were heavily invested in fixed-rate 30-year home mortgages. Evaluated at market prices, the capital of a large portion of the thrift industry was exhausted by 1980.

Although the industry was kept afloat for a time by government-sanctioned accounting gimmicks, many thrifts were walking dead—“zombies,” some called them—that had to be closed. Because the deposit liabilities of most thrifts were federally insured, the collapse of the industry was costly for taxpayers, who ended up on the hook for some $150-200 billion.

Inflation declined sharply in the early 1980s, thanks to a change in the course of monetary policy. The decline was largely unanticipated, however, and because few people expected inflation to remain contained, real interest rates soared as savers continued to demand high inflation risk premiums.

The dollar also appreciated sharply in foreign exchange markets. The strong dollar was hard on U.S. exporters and particularly devastating for farmers, as the dollar prices of agricultural commodities fell sharply. Many farmers had borrowed heavily to buy land during the 1970s, when commodity prices were soaring and land values were appreciating rapidly. Falling commodity and land prices in the 1980s left many unable to service their debts. A large number of farmers went bankrupt.

The general principle common to these cases of financial distress is that significant changes in the inflation rate cannot be accurately foreseen. Forecasting errors, and resulting financial losses and bankruptcies, are inevitable when the price level is unstable.

ENDNOTES

1. These biases arise from the difficulty of capturing improvements in the quality of goods and services, as well as substitutions among products that comprise consumers’ total purchases. Differences in how price indexes are put together imply that the specific rate of inflation that is consistent with price stability will likely vary across countries and over time. For the United States, zero true inflation likely translates to an annual rate of increase in the CPI of about 1 percent and in the broader price index for personal consumption expenditures of about 0.5 percent.


3. Although many economists believe that deflation was an important cause of the Great Depression, some remain unconvinced. See Parker (2007) for a survey of research on the causes of the Great Depression.


REFERENCES


