INFLATION: ITS CAUSE AND CURE
by W. Philip Gramm

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We are today experiencing the most prolonged period of rapid inflation in the history of the United States. While we have had short periods where inflation rates have been more intense, a decade of 5 percent plus average inflation is without precedent in the history of the Republic. As an index of how severe price increases have been for the last decade, the consumer price index, which measures the price of the market basket of goods and services purchased by the American consumer, is up 57 percent and the wholesale price index, which measures the price of raw materials used in the production processes, is up 65 percent from a decade ago. Not only have we experienced a decade of high inflation rates, but in the last year the rate of price increase has quickened. The consumer price index is up 12 percent from a year ago and the wholesale price index is up 20 percent. These harsh economic facts suggest two questions: (1) how did we get in such a mess, and (2) how do we get out?

The first question is easy to answer. We have data on inflation which goes back to the 15th century, when gold was discovered in America, transported to Spain, and permeated the European market. Since that time there has never been a prolonged general price inflation in recorded history that was not preceded by and directly related to a growth in the money supply. In our economy a growth in the money supply occurs principally when the government spends more than it taxes and prints money to make up part of the difference.

We have incurred five major inflations in the history of the United States: the Revolutionary War inflation, the War of 1812 inflation, the Civil War inflation, the World War II inflation, and the Vietnam War inflation. All five of these inflations have had the same cause: a rapid increase in the money supply. Under the Articles of Confederation the Continental Congress did not have the power to tax. It was therefore forced to issue paper currency to fight the Revolutionary War. The paper currency units were called Continental Dollars. You have all heard the saying "not worth a Continental," a statement derived from the fact that when Continental Dollars were redeemed at the end of the Revolutionary War, they were redeemed at 2 cents on the dollar in gold and silver. The paper currency depreciated very rapidly because of the tremendous quantity which was issued. In essence, the Continental Congress was coming on the American market and competing against private citizens for goods and services with newly issued Continental currency, buying goods at a more rapid rate than the economy was producing them. Prices, therefore, were driven up.

It is important to note, however, in reviewing our first inflationary experience as a nation that at the end of the Revolutionary War the Congress established the First Bank of the United States, which systematically withdrew Continental Notes from circulation. Prices then leveled off and fell back toward their original level.

The next major inflation in American history was the War of 1812 inflation, which was basically a carbon copy of the Revolutionary War inflation. The principal method of deriving federal revenue was imposing import taxes or tariffs. But we were at war with our major trading partner, England, and tariffs had fallen off drastically. In order to fight the war we therefore issued tremendous quantities of paper currency and produced a rise in general price level. Again, however, to the credit of our forebears, when the war was over the Congress established a Second Bank of the United States that redeemed paper currency at par. Prices leveled off and declined back to their original level as the paper currency was withdrawn from circulation.

The next major inflation in American history occurred during the American Civil War. The federal government ran a billion dollar deficit, which was...
without precedence in history. It financed a large part of this deficit by issuing Greenback Notes. These Greenback Notes expanded the money supply by over 150 percent, and prices roughly doubled from 1860 to 1865. At the end of the war taxes were left at their war-time level and government spending was cut back drastically. The government surplus drew Greenbacks out of circulation and the treasurer of the United States burned them. As the money supply declined prices fell off, and by 1879 we went back on the gold standard at exactly the same par value that existed in 1860 because prices had been driven back down to their previous level.

The next major inflation in American history occurred in World War II. The federal government ran a large deficit and the money stock grew 140 percent as the Federal Reserve Bank monetized a part of the debt. As the government entered the market armed with newly printed money, it drove up prices, increasing overall prices by over 60 percent during the Second World War. By 1946 we had balanced the budget, and by 1947 price increases had ceased. We established a period from 1947 to 1962 which proved to be one of the most prolonged periods of stable prices and stable economic growth in the Twentieth Century.

The next major inflation in American history occurred with the initiation of massive government expenditures on the Vietnam War. We are today in the fifth major inflation in American history — and its source is identical to the four inflations that preceded it. The current inflation differs only by the fact that it has been carried over into a peace-time period; this is the only peace-time inflation in the entire history of our country. Our present inflation has been caused by the fact that the federal government since 1965 has run a $100 billion deficit and has financed 40 percent of that deficit by simply printing money.

It is fundamentally important to note the difference in the impact on the economy caused by federal finance in taxing and borrowing, as opposed to printing money. When the government taxes and spends the receipts of those taxes, the ability of the private consumer to purchase goods and services is diminished by the amount of the tax. Therefore, the increase in total spending as a result of the increase in government spending is quite small. If the government goes onto the bond market and sells bonds, competing with private firms and private individuals for loanable funds, the competition simply drives up interest rates as government diverts funds away from private investment projects. In this case, private spending falls by the amount that public spending increases. In the case of selling government bonds to the Federal Reserve Bank, which in turn gives the treasurer the capacity to write checks drawn on the Federal Reserve Bank, there is no corresponding decrease in private spending. So the increase in government spending represents a net increase in total demand for goods and services.

There is a simple rule of thumb to follow in gauging the relation between the growth in the money stock, the growth in the economy, and changes in prices. Remember what money is used for — it is used to buy and sell goods and services and consummate exchange. We have found in economics that as the level of economic activity grows with the growth in income and commerce, the demand for money grows by a corresponding amount. So if the economy grows at about 3 percent a year, which has been the historic growth rate on average throughout the entire history of the United States, then the economy will absorb a 3 percent growth in the money supply with no change in prices. For example, from 1947 to 1962 the federal government ran small deficits and the money stock grew at about 3 percent per year as the Federal Reserve Bank purchased government securities in the open market to keep interest rates low. The economy grew at about 3 percent a year so that the increase in money supply was simply absorbed in the summation of exchange, and prices remained virtually stable for the entire period. One exception was the year 1950, when the economic impact of the Korean Conflict was felt. The money supply grew by 10 percent, the economy grew by about 3 percent, and prices increased about 8 percent.

Beginning in 1964 we had large increases in federal spending to finance unprecedented domestic expenditures on the War on Poverty and on Great Society programs. With the escalation of the war in Vietnam we saw the government deficit rise from a fairly low level in 1964 to $25 billion a year in 1968. The so-called anti-inflationary surcharge im-
posed in 1968 had no real impact on inflation rates because government expenditures grew more rapidly than tax receipts. As a result, in 1968 we ran a record peace-time deficit and the money supply grew by almost 8 percent.

In 1969, when President Nixon took office, we made the only real attempt in the whole inflationary period to stop the inflation. Beginning in January, President Nixon brought the budget into balance, and the rate of growth in the money stock from January to June was zero percent. This policy worked because the rate of pricing increase, which was almost 7 percent on an annual basis in December and January, had fallen to a 2.7 percent rate of price increase by June. But in April, May and June the unemployment rate jumped a significant amount.

Unemployment rose principally because in the wage negotiations which occurred in the fall of 1968, wage contracts were made on the assumption of a continuation of 5-7 percent inflation rates. This expectation was realistic, given our previous five years experience. So an employer who expected the productivity of his workers to rise by 2 percent was willing to negotiate a 7-9 percent wage increase if he expected the price of his product to rise by 5-7 percent. Laborers, being aware of the same set of circumstances, were unwilling to accept any smaller pay increase. If the federal government had continued its expansionary monetary and fiscal policy, such wage negotiations would have caused no changes in the unemployment rate. But when the federal government reversed its monetary policy in attempting to stabilize prices, and the rate of price increase fell below 3 percent by June, the wages that had been negotiated in the fall of 1968 were too high for full employment, and workers were laid off. The federal government at this point faced a crucial decision between two options. (1) It could reverse its monetary policy, reinflate, and therefore seek to drive up prices, which would produce a fall in real wages to the point necessary to produce full employment. Or (2), it could maintain its monetary policy, and allow the new contracts written in the fall of 1969 to be based on a 2.7 percent inflation rate and a higher unemployment rate.

In 1969 and 1970 the federal government reversed its policy and began to inflate at an increasing rate in the last six months of 1969 and 1970. By January of 1971 the inflation rate was back up to a 6 percent annual rise and the unemployment rate was beginning to slide. Since June of 1969, when we abandoned our only real attempt to stop the inflation, we have made no significant attempt to stop inflation in this country. We have sought to find easier solutions to our economic dilemma. At first we tried a voluntary basis, in the second half of 1969 and 1970. With mandatory wage and price controls in 1971 we attempted to freeze prices and wages in the United States by government edict.

While we in economics have a lot of data on inflation, we have even more data on wage and price controls. In fact, our first history of wage and price controls occurred 5,000 years ago when price controls were imposed in the fifth dynasty of ancient Egypt. Pericles imposed price controls in ancient Athens, and Diocletian imposed wage and price controls in ancient Rome. And from the fifth dynasty of ancient Egypt to President Nixon's Phase IV price controls, all of these experiences have one thing in common - not one in history has ever worked. And they do not work for a very simple reason: they freeze prices at a point where the quantity demanded exceeds the quantity supplied. They simply turn price increases into shortages and stifle the incentive to produce, therefore causing output to fall.

We have in fact produced a minor miracle in the United States in the 1970's, in that we have produced a grain and a meat shortage through government policy in a country that has the most fertile land, the highest level of capital equipment and technology in agriculture, and the best educated farmer in the world. We have produced shortages of critical inputs into the production process, sending the country into a recession where output fell by 7 percent in the first quarter of 1974 and 1-1/2 percent in the second quarter of 1974. We are today recovering from a recession that was caused by wage and price controls.

If one looks at what the federal government says it is doing in its "anti-inflation" policy, and then looks at the growth in the money supply to see what it is actually doing, there is only one conclusion that can be drawn. That conclusion is that federal anti-inflation policy since June of 1969 has been a "fraud." Over the last 12 months the monetary base has grown at almost an 8 percent annual rate. Never in history has such a rate of monetary expansion failed to produce rapid inflation.

When the federal government, in June 1969, stopped trying to do anything about inflation it turned its activities toward developing scapegoats in order to get Americans to blame their neighbor for their problems. Had the scapegoat strategy not been so effective, it would be humorous. How does the system work? Well, you have all heard it. It works basically as follows. A bureaucrat goes to a businessman and says, "Why are you increasing your prices?" And the businessman says, "Because our costs are rising." And then the bureaucrat says, "What is your major cost?" And the businessman says, "labor." And then the bureaucrat says, "Well, labor unions cause inflation." And then the same bureaucrat goes to union leaders and says, "Why are you demanding such high wage increases?" And union leaders note that the consumer price index is up 12 percent since last year, and that real wages of hourly workers are 4 percent lower than they were a year ago in real purchasing power dollars. And the bureaucrat says, "Well, who sets prices anyway?" And the labor leaders say, "businessmen." And the bureaucrat says, "Well, through price collusion and administered prices, businessmen create inflation."

Then, of course, another popular version of scapegoatism was employed by John Connally when he
became head of the price commission. He said, "We are all causing inflation through our greed. We are all so greedy in competing against each other for goods and services that we are, through this competition, driving up prices. We have all just got to stand back and quit being so greedy." I guess the low point in scapegoatism was reached when Herbert Stein pronounced, just before his retirement from the Council of Economic Advisors, that the American people were responsible for inflation.

Picking up the scapegoat theme, Jack Anderson, about eight months ago, wrote an article in which he said high interest rates are the result of banker collusion in an attempt to drive up the interest rate to make fat profits at the public's expense. This statement, I think, showed that Jack Anderson knows nothing about banking and finance and nothing about economic history, because never in the history of the United States have we had high inflation rates when we have not also had high interest rates.

Our high interest rates today, which have disrupted the long-term capital market, have been caused by irresponsible government. I think that it is important that we not allow bankers and businessmen to be used as scapegoats for government failure. In fact, if one looks at nominal interest rates and the current inflation rates and attempts to draw any parallel between current interest rates, in terms of real resources borrowed, relative to real resources paid back, interest rates today are not at historic highs, as we are told in the newspaper and on the news. They are at historic lows. We hear from Washington that government economists marvel at record demand in the short term credit market in the face of record high interest rates, but if one can borrow at 12-1/2 percent on prime commercial paper and the inflation rate is 12 percent, he is paying back, in real terms, only 1/2 percent interest. It is indeed no marvel that the demand for capital on the short term credit market is at a record high, because real interest rates are at a record low. Indeed, if the Federal Reserve Bank were not today following an easy money policy through open market purchases of government securities, interest rates on short-term credit would probably be 15 percent.

While high nominal interest rates have not disrupted the short-term credit market, they have had a disastrous effect on the long-term credit market, and the reason is very simple to understand. Historically, in the United States we have been blessed with fiscally responsible government. Indeed, if you throw out all the war years in American history, prices on the average have remained constant or fallen slightly throughout the entire history of the United States. As a result, we have had historically low nominal interest rates. Therefore, borrowers are loathe to commit themselves over 25-30 years to a nominal interest rate that, although it may be 2 percent or negative (in real terms) at current inflation rates, might later turn out to be an extremely disadvantageous rate if the current inflation should end. Secondly, at high inflation rates, funds have been diverted from their traditional channels, whereby savings flowed into commercial banks and savings and loans institutions, and were in turn loaned out to businesses to build new factories, to generate jobs, and to build new homes. As a result of high inflation rates, funds have been diverted into land, commodity speculation, and large government bond issues.

We are all aware of the impact inflation has on income redistribution, particularly on those with fixed salaries, the old, and the poor. There is no question that this is a major cost of inflation. But an additional, more important cost is the impact caused by diverting funds from traditional channels and disrupting the link between the saver and the investor. In this way, we are today planting seeds which will yield lower economic growth rates for a decade. The diversion of funds into land and commodity speculation, while it is an effective inflation hedge, does not promote the economic growth of the country or growth in employment and wages.

How do we stop the inflation? Inflation has one cause and it has but one cure. And that one cure is to slow the rate of growth in the money supply. This can occur only by closing the government deficit. Our inflation has resulted from the prevalence of a bankrupt (and bankrupting) idea within government that money solves problems. If one looks at the historic growth pattern of government spending over the history of the United States, it is very easy to discern that within the last 15 years there has been a fundamental change within our govern-
ment. From the birth of the United States it took over 180 years for the federal budget to grow from roughly zero to $100 billion. It took only ten years to grow from $100 billion to $200 billion, and it has taken only four years for it to grow from $200 billion to $300 billion. Despite the fact that federal tax collections have grown by 110 percent over a decade, over three times the rate of economic growth, the federal government has failed to live within its budget. The federal government is deficit financing at such a rate that today it is absorbing 60 percent of all the funds raised in U.S. capital markets.

In January I had the pleasure of working in Washington for my Congressman, Olin Teague, on the Energy Emergency Act. While I was there, Congressman Teague asked me if I would read some of the bills that he had to vote on during the period I was working for him. I noticed that despite the fact that I make my living reading and writing, I was unable to read the bills as fast as they came in, so the stack on my desk kept getting higher and higher. Finally I realized that it was physically impossible for any Congressman to read the bills he had to vote on. I assert here today that no member of the United States Congress reads the $25 billion education act that has just become law. The sheer bulk of paperwork is so great that no effective research is being done in the Congress by those who are actually engaged in the process of making decisions in the public interest. We are experiencing an attempt by the Congress to substitute money for ideas.

The best personal example that I have witnessed of the bankruptcy of government with regard to new and viable ideas was a call I received back in January. I was working in my office at Texas A & M and my secretary, who gets excited with very little provocation, came into my office and said, “Dr. Gramm, you’re not going to believe this, but the President of the United States is on the telephone.” And I said, “You’re right, I don’t believe it.” But, anyway, I picked up the phone and this very stern sounding lady said, “Is this Dr. W. Philip Gramm of Texas A & M University?” I said, “Yes, Ma’am.” She said, “Dr. Gramm, this is the White House calling.”

So I sat on the edge of my chair awaiting some message — some mission from my President — and this guy came on the phone from the White House staff. He said, “Dr. Gramm, your name has been given to us by some very, very important people. We think you might be the kind of guy that can help us develop a new and viable energy program, a system of government control and subsidies, a system of government and industry mutual research and project participation. And as an index of our commitment to this project we are willing to commit $20 billion.” He went on and used every 25-cent word in the English language. When he got through, being an Aggie, I said simply, “It is a happy coincidence that out of 211 million Americans you have called the right man, because I know exactly what to do.” I told him that I envisioned a system which was not going to cost a penny, but in fact would make money. It would be so productive that we could tax its output and finance government programs on the basis of its productivity. I told him that I envisioned a system whereby we would allow people to own property, and we would allow them to combine this property with their God-given talents to produce output. We would allow them to sell output in a free market so that each individual, in attempting to maximize his own welfare, would operate at maximum efficiency. And each consumer, in attempting to maximize his own individual welfare, would economize on the things that were scarce and therefore expensive, and substitute for them things that were abundant and therefore cheap. In such a system, by rewarding production and innovation, we could assure a maximum level of economic growth. I told him that I was basically a modest person and that I wanted him to know this was not totally my idea; that in fact if he would like a written reference, he might look at Adam Smith’s Wealth of Nations, written in 1776. And I hung up. Well, I assumed that I would never hear from the White House again, but indeed they went to a great deal of trouble to get in touch with me. And that’s how, as I expressed it, for about a four-month period, while I didn’t invent free enterprise, I had the sole Washington distributorship on it.

Probably the best statement of the money-solves-problems philosophy that I have ever heard was John Lindsay’s statement shortly after he became mayor of New York. The gist of John Lindsay’s message was as follows: people think New York City has a lot of problems, but New York City has only one problem — private affluence and public poverty. If my budget were simply twice what it is today I could solve every problem in New York City. The day John Lindsay left office his budget was 2.2 times what it was the day he took office, and by every index from garbage collection to crime in the streets, New York City was a worse place to live the day he left than the day he came. And the reason is that money does not solve problems, ideas solve problems. And government has not had a viable idea in 40 years.

If we are to ever put an end to spiralling prices, shortages, high interest rates and economic stagnation, we must stop the growth of government and put our monetary and fiscal house in order. To reverse the trend of fiscal irresponsibility we need strong leadership, which is a scarce commodity in Washington today. We must resist the siren song of more and more government spending and more and more government controls, and stand up for the free enterprise system which has made us prosperous and free.

The hour is late. It has become quite fashionable to proclaim the inevitability of the demise of our system. Such a philosophy is a convenient escape. For if there is not hope we are not obligated to do anything. In fact, there is no real reason for pessimism. We have human talents on our side. We have money and economic power on our side, and most important,
we have history on our side. We have in the American free enterprise system, the most successful economic system in the world. It has elevated us from a powerless nation, 90 percent of whose citizens were in poverty — by any measure — at the time of the Revolution, into the greatest agricultural and industrial power on earth. So successful is our system and so high are the aspirations of the American people that we define poverty at an income level that is higher than the average income level of the world's second most powerful nation. Yet, paradoxically, this great system is under attack at all levels of government, and is being replaced by a system which has never worked in history and which is working effectively nowhere in the world today. The greatest product in history is not selling for the simple reason that it has no salesman. Those within our government who supposedly represent our views are defending our system with an ineptitude unparalleled in the history of the Republic. To reverse this trend we need but a unit of will.

I wish to tell you today that I am optimistic about the future of America, and I am optimistic about the future of the American free enterprise system. If we have learned anything in the 1970's, it is that big government cannot solve problems, and that spending more of the taxpayers' money cannot turn a bad idea into a good one. Everywhere I go in our state and in our nation I find the American people feel a sense of helplessness. They know big government is not working, they know something is out of kilter, but they don't know what to do about it. What we need today, more than at any time in the history of the United States, is a new wave of leadership to turn this country around. We need this leadership to fulfill the ideals and aspirations of a revolution which occurred almost two hundred years ago. In the coming struggle for the survival and the success of the American experiment, I call upon you as our business and civic leaders not to be merely passive observers, but to be active participants. While I cannot speak for the actions of others, in my own case I mean not only to participate, I mean in that participation to lead.

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