# FEDERAL RESERVE BANK OF ST. LOUIS DECEMBER 1970





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# 1970 - Economy in Transition

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NFLATION gradually intensified in this country from late 1964 to early 1970, and expectations of future inflation were progressively revised upward. The interruptions to output and the inequities caused by redistributions of wealth and income resulting from the inflation and inflationary expectations became a serious domestic economic problem.

During 1970 inflation remained strong and pervasive, but the rate of price advance began receding slowly. Inflation has become imbedded in thinking, expectations, policies, contracts, and regulations. This article: 1) points out some of the effects of inflation; 2) reviews the period during the inflation build-up; 3) examines actions taken to resist inflation before 1970; 4) discusses alternative courses of monetary action for 1970; 5) traces the monetary actions taken; 6) analyzes spending, production and price developments in 1970; and 7) presents three courses of monetary action for 1971.

#### General Price Index\* Ratio Scale Ratio Scale 1958=100 1958=100 145 145 140 140 4.4%135 135 135 +5.39 130 130 125 125 120 120 +3.1% 115 115 +1 7% 110 110 105 105 1st atr. 3rd atr ŧ 100 100 1963 1966 1970 1962 1964 1965 1967 1968 1969 Source: U.S. Department of Commerce As used in National Income Accounts Percentages are annual rates of change for periods indicated Latest data plotted: 3rd quarter

#### Effects of Inflation

Inflation is a rise in the average level of prices or, stated in another way, a decline in the purchasing power of money.1 Because of the key roles money and money-denominated assets play, an unanticipated decline in the value of money has many effects on production and distribution. It affects holders of money adversely, reduces the relative value of outstanding bonds, mortgages, savings accounts, and other dollardenominated assets, while windfall gains to debtors. Those on pensions and others having relatively fixed incomes have less real buying power with inflation.

<sup>1</sup>All price increases are not inflationary. In a dynamic growing economy with overall price stability, some prices rise while others decline. Factors affecting individual prices include advances in technology, changes in resource availability, amounts of capital invested, and changing consumer tastes and preferences. Movements of individual prices serve the very useful functions of equating supply and demand for individual products and services and of allocating the nation's resources. Attacking inflation by controlling individual prices does not get at the crux of the problem. Such a policy usually creates inequities and shortages and tends to stifle growth and progress.

Just as there are costs and inequities of adjusting to a higher rate of inflation, there are costs and inequities involved in adjusting to a rate of inflation lower than anticipated. Contracts and other commitments made on the expectation of continued inflation become more burdensome to fulfill if inflation is less than anticipated. When excessive spending is dampened, many prices continue to move upward as an adjustment to past excesses and inequities, causing declines in production and unemployment.

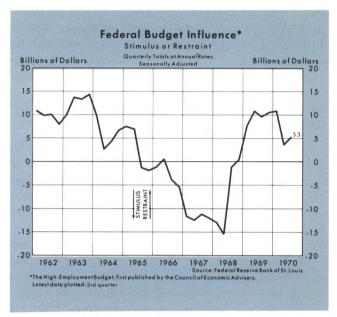
The current inflation is likely to have pervasive effects on redistributing income and wealth for a long time. Costs of adjusting to inflation can be minimized if the rate of inflation is stabilized for a prolonged period. If inflation were stabilized at a zero rate, no adjustments would be required to protect against a changing purchasing power of money.

# Accelerating Inflation

Total spending on goods and services rose at an average 8 per cent annual rate from late 1964 to the fall of 1969. Since there was little available excess capacity, increases in real output were constrained by the growth in the nation's capacity to produce. The rise in spending was roughly double the estimated rate of real growth, and prices were gradually bid up until, in 1969, overall prices rose more than 5 per cent.

The economy received many expansive shocks beginning in 1964. Expenditures of the Federal Government rose progressively relative to receipts until mid-1968. Income tax rates were reduced in early 1964 to eliminate a "fiscal drag" and get the economy moving. Reflecting the war in Vietnam, defense outlays of the Government, which had risen at a 1.3 per cent annual rate from 1957 to 1964 (national income accounts basis), increased at a 14 per cent rate from 1964 to mid-1968. Growth in nondefense outlays of the Federal Government was also stepped up from the 9.6 per cent rate from 1957 to 1964 to a 12 per cent rate from 1964 to mid-1968.

Studies at this Bank indicate that these fiscal actions alone were not sufficient to accomplish the rapid growth in total spending and the acceleration of inflation. Such Government actions may reallocate income and resources and may effect the trend growth in



capacity. Initially they also have some influence on total spending. However, the aggregate influence of the Government budget on total spending is relatively small if the resulting deficits or surpluses are financed by the public out of planned saving rather than accompanied by changes in the money stock.<sup>3</sup>

Monetary actions were also very expansive beginning in late 1964. By supplying more money than the public desired to hold, given current levels of income, wealth, and interest rates, the public's demand for other financial assets and for goods and services was stimulated. From late 1964 to early 1969 money rose at a 5.3 per cent average rate, up from a 3 per cent rate earlier in the decade and a 2 per cent rate in the Fifties. Except for the ninemonth period of restraint from the spring of 1966 to early 1967, monetary expansion was at a very rapid 7 per cent average rate.

# Actions Taken Before 1970 to Resist Inflation

As the inflation problem built up, the Government became concerned and took a number of actions designed to restrain it. Unfortunately, many of the actions were insufficient in magnitude, were based on

<sup>&</sup>lt;sup>2</sup>A summary measure of the Government's budgetary influence on the economy is provided by the high-employment budget (a concept which eliminates the effect of changing levels of business activity on the budget). This measure shifted dramatically from a \$13 billion surplus in 1963 to a \$14 billion annual rate of deficit in the first half of 1968.

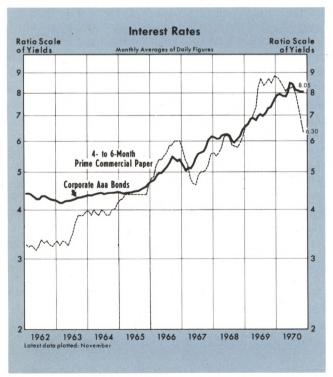
<sup>&</sup>lt;sup>3</sup>"Monetary and Fiscal Actions: A Test of Their Relative Importance in Economic Stabilization," this *Review* (November 1968), pp. 11-24, and "Monetary and Fiscal Influences on Economic Activity – The Historical Evidence," this *Review* (November 1969), pp. 5-24.

Effects of changes in Government activities tend to be crowded out by opposite movements in private spending when the Government finances its deficits with increased debt to the public. See "The Crowding Out of Private Expenditures by Fiscal Actions," this *Review* (October 1970), pp. 12-24.

poor economic analysis, or had only delayed effects. Thus they proved to be largely ineffective before 1970. Chief actions presumed and intended to be anti-inflationary were using moral suasion to moderate wage and price increases, permitting higher interest rates, regulating credit, raising tax rates, reducing the rate of growth of Government spending, and finally, slowing the growth in money.

Moral Suasion — Before the acceleration of inflation began in the mid-Sixties, the President's Council of Economic Advisers had presented a set of guideposts for labor and management.<sup>4</sup> The guideposts and other appeals to the public were not effective in holding down wages or prices when pressures became strong. Workers and businessmen would not forgo returns which were available to them. Even if they had, the economy would have become less efficient, incentives would have been reduced, shortages would have developed, and resources would not have been attracted into areas of greatest demand.

Interest Rates - Market interest rates increased greatly from 1964 through 1969. Yields on highest-



grade seasoned corporate bonds, for example, went up dramatically from 4.5 per cent in the early Sixties to nearly 8 per cent in late 1969. It was thought that the higher rates would restrain the expansion of investment and other spending while stimulating saving.

The rise in interest rates was in response to a great demand for loan funds by both the Government and private sectors. The private sector demand derived from the rapid growth in total spending and anticipations of inflation. With expected inflation, borrowers were willing to pay higher rates to buy plants and equipment because these items were likely to cost more later.<sup>5</sup> Rapid monetary expansion resulted, in part, from the central bank attempting to moderate interest rate increases in the short run. But the rapid monetary expansion, by stimulating total spending and thereby increasing inflation, led to still greater demands for credit and higher interest rates than would have occurred without such monetary expansion.

Credit Regulation — Regulation Q was administered on the basis of a belief that it would help limit inflation. This Regulation, which originated in 1935 under quite different circumstances, was used to keep the rates that banks were permitted to pay on time deposits below market rates during most of 1969. As a result time deposits in commercial banks fell 5 per cent in the year, after rising at a 14 per cent annual rate in 1967 and 1968. Largely as a result, total credit extended by commercial banks rose only 3 per cent during 1969, following an 11 per cent rate in the two previous years.

The total supply of funds, however, was not diminished; they flowed from supplier to ultimate user through other channels, such as direct loans, commercial paper, and the Eurodollar market.<sup>6</sup> Regulation Q probably had little or no effect on either total credit extended or total spending. Yet, by diverting funds through alternative routes, inefficiencies and inequities developed. Homebuyers, small businesses, and consumers, who must rely on local financial institutions to obtain credit, were at a disadvantage. Large businesses which could obtain funds in central money markets received more funds and probably at lower rates than in the absence of the disintermediation. Small savers were penalized by the low regulated rates received, while larger lenders who have more alternatives received higher returns.

<sup>5</sup>"Interest Rates and Price Level Changes, 1952-69," this Review (December 1969), pp. 18-38.

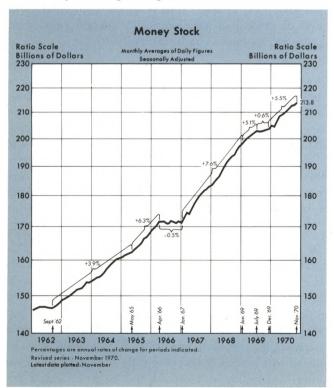
<sup>&</sup>lt;sup>4</sup>Wages were to be raised no faster than the national trend of productivity growth (estimated at about 3 per cent a year), and prices were to be established so as not to raise profit margins.

<sup>&</sup>lt;sup>6</sup>In suspending the ceiling on 30- to 89-day large certificates of deposit the Board of Governors noted on June 23, 1970 that an expected increase ". . in bank loans would not constitute an increase in total credit flows, to the extent that they simply represented a transfer of borrowings from other financial avenues, . . " Federal Reserve Bulletin (July 1970), p. 605.

Fiscal Actions - The Revenue and Expenditure Control Act was signed into law on June 28, 1968. The major features of the Act were a 10 per cent surtax designed to reduce the amount of disposable income and thereby slow private spending, and a requirement that the growth of Government spending be restricted. Federal outlays in the national income accounts budget rose at a 6 per cent annual rate in the last half of 1968 and in 1969, compared with a 13 per cent trend rate from late 1964 to mid-1968. As a result of these actions, growth in total spending was expected to slow by some multiple, placing immediate downward pressure on prices.

These fiscal actions of mid-1968 did not produce the results expected by their sponsors. Excessive growth in total spending continued at only a slightly reduced rate. Slower growth in spending by the Federal Government was largely offset by greater outlays of those who were able to attract the funds formerly flowing to the Government to finance its deficits.

Monetary Actions - Growth in the nation's money stock was slowed markedly in early 1969 in another attempt to reduce the inflationary surge. Following a rapid 7.6 per cent annual rate of money growth during 1967 and 1968, growth in money slowed in the first seven months of 1969 to a 5.1 per cent rate, and to a 1.2 per cent rate from July to February 1970. With the money stock growing at a slower rate than the



demand for money, spending was expected to slow as businesses and consumers attempted to conserve cash balances.

As usually occurs after a change in the growth trend of money, spending continued to be influenced primarily by the previous trend of money growth for about six months. Hence, spending continued to rise excessively until the early fall of 1969, and inflationary pressures intensified despite the monetary restraint. Later in the year, total spending slowed, but prices continued to rise in delayed response to the previous excessive spending. Despite the actions taken, the upward surge of prices continued to accelerate through 1969.

# Policy Alternatives at the Beginning of 1970

As 1970 began, the economic situation was suffering greatly from the fiscal and monetary actions of 1965 through 1968. The rate of overall price increase was about 5.5 per cent a year at the end of 1969, after accelerating for five years. Real production was not expanding, unemployment was rising slightly, and corporate profits were declining. Both bond and stock prices were lower than a year earlier. On the favorable side, the battle against inflation had begun to show the first signs of success. The excess demand, which was the major causal link to inflation, had been moderated.

The crucial consideration for the nation in the coming year was to determine how rapidly the price effect of the past excesses could and should be extinguished. If restrictive monetary actions were aggressively pursued, the rise in total demand for goods and services might slow rapidly, and inflationary pressures might be extinguished sooner than otherwise. However, the transitional costs in terms of lower production, employment, and incomes would be severe, and the temptation would be strong to restimulate the economy before the task was completed, as had been done in 1967.

On the other hand, if demand grew so rapidly as to permit growth in production, employment, and real incomes to continue at near their long-run optimal trends, moderation of inflation might never be achieved. In such a case, the country would continue for a prolonged period to suffer inefficiencies and inequities caused by a continuous erosion of the value of the dollar. Some middle course seemed more advisable than either a quick vigorous correction or the toleration of endless, and possibly increasing, inflation.

Table I Simulation of Alternative Rates of Monetary Expansion At the Beginning of 1970\* 1969 1970 III IV 1 11 111 IV 1 11 111 IV Projections Actual Estimated Assumed Rates of Change in Money Stock O Per Cent Annual Rate of Change in: Nominal GNP 8.0 4.6 3.1 1.8 1.3 1.6 1.2 1.2 1.2 1.2 Real GNP 22 \_07 -1.9-3.0-3.2-2.9-2.9 -2.5-1.9-1.3GNP Price Deflator 5.4 5.2 5.1 4.9 4.7 4.6 4.3 3.8 3.2 2.5 Unemployment Rate 3.7 4.1 4.5 5.0 5.5 6.1 7.1 7.6 6.6 8.0 Corporate Aaa Rate 7.1 7.2 7.2 7.3 7.4 7.5 7.4 7.2 7.0 6.7 3 Per Cent Annual Rate of Change in: Nominal GNP 8.0 4.6 3.9 3.7 4.2 5.0 4.7 4.6 4.6 4.6 Real GNP 2.2 -0.7-1.2-1.2 -0.60.1 -0-0.3 0.6 1.1 GNP Price Deflator 5.2 5.4 5.1 4.9 4.8 4.8 4.7 4.4 4.0 3.5 **Unemployment Rate** 3.7 4.1 4.5 4.9 5.3 5.6 5.9 6.2 6.7 6.5 Corporate Aaa Rate 7.1 7.2 7.1 7.2 7.4 7.5 7.4 7.3 7.1 6.8 6 Per Cent Annual Rate of Change in: Nominal GNP 8.0 8.4 4.6 4.6 5.5 7.1 8.1 7.9 8.0 8.0 Real GNP 2.2 -0.7-0.50.5 2.0 3.2 2.9 3.0 3.1 3.4 **GNP Price Deflator** 5.4 5.2 5.1 50 5.0 5.1 5.1 4.9 4.7 4.4 3.7 41 4.4 Unemployment Rate 4.8 5.0 5 1 5.2 5.3 5.4 5.4 7.1 7.2 7.0 7.2 7.0 Corporate Aaa Rate 7.4 7.5 7.5 7.4 7.2 \*The projections were based on equations estimated in December 1969, using actual data through III/1969. Money stock and high-employment Federal expenditures were estimated for IV/1969 by this Bank. Thereafter expenditures were assumed to grow at a 6 per cent rate. Alternative assumed rates of change in money stock began in I/1970.

This Bank at the beginning of the year simulated the effects on the economy of three alternative courses of monetary action. These simulations were prepared using the Bank's model, and assuming Federal Government expenditures would grow 6 per cent in the year.<sup>7</sup>

One test assumed a slight tightening of the restrictive monetary actions which had been followed since mid-1969, that is, holding the money stock unchanged. The model indicated that this would cause a significant recession in 1970 and 1971 (see table). Total spending would rise only slightly, output would decline at a 2 or 3 per cent annual rate, and unemployment would move up to over 6 per cent by the end of 1970 and to about 8 per cent by the end of 1971. Because the imbedded inflation was strong, the rate of price increase would slow only gradually. The model indicated that prices might still be going up at about a 4.5 per cent rate in late 1970 and at a 2.5

per cent rate in late 1971. With the continued rapid rate of price increase, long-term interest rates were projected to remain high during 1970.

A second test assumed a less restrictive 3 per cent annual growth of money (similar to the trend since 1953). The simulation indicated that the economic adjustment would be less severe but also less progress against inflation could be expected. Under such a policy, total spending was projected to rise at a 4 to 5 per cent rate during 1970 and 1971. Over the two year span, price increases might slow to a 3.5 per cent rate while unemployment might rise to about 6.7 per cent of the labor force.

A third test assumed a still more expansive policy (6 per cent annual rate of increase in money). This indicated a more expansive economy but with only slight downward pressure on inflation. The rise in total spending was projected to accelerate during 1970 to about an 8 per cent rate and continue at that rate during 1971. Production would quickly begin expanding, reaching about a 3 per cent rate of growth in late 1970 and a slightly higher pace a year later. Unemployment would rise to just over 5 per

<sup>&</sup>lt;sup>7</sup>For a discussion of the model see "A Monetarist Model For Economic Stabilization," this *Review* (April 1970), pp. 7-25. Current projections based on this model are presented in the "Quarterly Economic Trends" release which is available on request from this Bank.

cent in late 1970 and to about 5.5 per cent in late 1971. After two years of such a policy, the simulation indicated the rise in prices would slow only gradually from the 5.3 per cent rate in late 1969 to about a 5 per cent rate in late 1970 and to about a 4.5 per cent rate in late 1971.

The choice was difficult. No policy alternative promised a quick, painless elimination of inflation. Fewer real goods and services would be available because of lost production and unemployment, and pain caused by inequities and inefficiencies of inflation would continue. One lesson from the experience was obvious; more care should be taken in the future to avoid such mistakes as those of 1965 through 1968 which generated the strong inflationary momentum.

# Monetary Actions During 1970

Early in 1970 the Federal Reserve System adopted a more expansive policy and began placing more emphasis on monetary aggregates in policy formulation and implementation. Late in 1969 the System's Open Market Committee (the chief policymaking group) had directed the operating manager to maintain the prevailing firm conditions in money markets. This was a continuation of the policy which had resulted in the slow growth of the money supply beginning in July 1969.

At the January 1970 meeting a slight easing of policy was adopted, and the manager was requested, among other things, to seek a modest growth in money and bank credit.<sup>9</sup> At the February meeting (and most subsequent meetings for which directives have been made public, after about a three-month lag) the manager was requested to seek a moderate growth in money and bank credit.<sup>10</sup> The word "moderate" presumably implied more expansion than "modest."

The word "moderate" in the directive was interpreted to mean different rates of expansion from one meeting to another. In general, policy in terms of money was initially to seek about a 3 per cent annual rate of increase; at the May 5 meeting, the target was raised to 4 per cent.<sup>11</sup> During the late Spring and early Summer when fears of financial panic arose with the declines in security prices, the Committee temporarily agreed that operations should be adjusted as necessary to moderate unusual pressures in financial markets, should they develop. The money mar-

ket conditions specified in the meeting of May 26 were thought to be consistent with a 7 per cent rate of money expansion from March to June. <sup>12</sup> At the meeting of June 23, the Committee adopted a target rate of about a 5 per cent growth rate in the money supply from June to September. <sup>13</sup> This target was reaffirmed at meetings of July 21 and August 18 (the last released record). <sup>14</sup>

The directives, however, were not without ambiguity. Money was not the only aggregate to be controlled; the Manager was also directed to obtain a moderate growth in bank credit. Because of the reintermediation of time deposits following relaxations of Regulation Q in January and in June and declines in market interest rates, bank credit rose very rapidly. It became clear that the System could not count on obtaining the specific objectives with respect to both money and bank credit. The primary emphasis was placed on the money objective in the directive of August 18. The bank credit effects of the reintermediation were viewed as a substitution of bank credit for other credit.

Even though the Committee sought a given rate of growth in money, it was not intended that the manager was to seek this trend rate each day, each week, or even each month. The reason for not rigidly applying the aggregate guide in the short run was to avoid the gyrations in interest rates that was thought might be produced by a strict adherence to the aggregates. In these shorter periods the manager was to operate, as previously, with an eye to money market conditions. The conditions selected were those thought to be consistent with a growth in the aggregates at the desired rate over a period of about three months. Whenever the aggregates appeared to be deviating significantly from the desired path, the manager was to permit changes in the money market conditions to develop with an objective of getting the aggregates on course. This procedure was not precise, but largely a trial and error approach. Also, money market conditions were not always used merely as a means to obtain the desired growth rate in money; at times money market conditions became an end in themselves to be considered along with the aggregate targets.

From December 1969 to the four weeks ending December 4, 1970 the money stock rose at a 5.5 per

<sup>&</sup>lt;sup>8</sup>Federal Reserve Bulletin, March 1970, pp. 273 and 278.

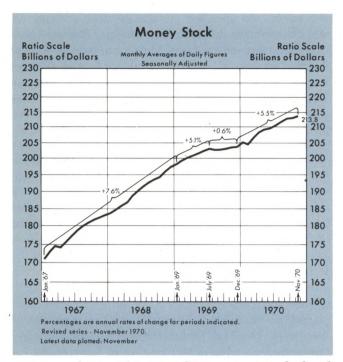
<sup>&</sup>lt;sup>9</sup>Federal Reserve Bulletin, April 1970, p. 339.

<sup>&</sup>lt;sup>10</sup>Federal Reserve Bulletin, May 1970, p. 442.

<sup>&</sup>lt;sup>11</sup>Federal Reserve Bulletin, August 1970, p. 631.

<sup>&</sup>lt;sup>12</sup>Federal Reserve *Bulletin*, September 1970, pp. 711-13. <sup>13</sup>*Ibid.*, pp. 717-19.

<sup>&</sup>lt;sup>14</sup>Federal Reserve Bulletins, October 1970, pp. 762-3 and November 1970, p. 820.



cent annual rate. This rate of increase was calculated on the basis of the revised series (November 1970) and was slightly faster than the rate calculated using the old series. Even though money grew on average at about the desired rate, the performance may have been accidental. From February to the four weeks ending June 17, a period when there was an intensification of money market pressures and some interest rates rose, money expanded at a rapid 9 per cent annual rate. From the four weeks ending June 17 to the four weeks ending November 25, when money market conditions eased markedly and interest rates fell, money rose at a 3.7 per cent rate. This was similar to the previous pro-cyclical tendency of the System to inject money rapidly at times of huge credit demands (usually accompanying stronger business conditions), and to withdraw money or inject it slowly at times of weak credit demands (usually accompanying contractions in business activity). The pro-cyclical tendency of System actions when formulated in money market conditions terms was one reason for the System to shift to monetary aggregates in the formulation and implementation of monetary policy.

Studies at this bank indicate that temporary variations from trend, of the magnitude and duration of those experienced during 1970, have no significant effect on total spending, prices, production, or employment. If the deviations were larger or were allowed to persist longer, they would have undesirable results.

Money rose roughly 5 per cent in 1970, based on quarterly averages of daily figures, increasing at annual rates of 4 per cent from the fourth quarter of 1969 to the first quarter of 1970, 7.2 per cent from the first to the second quarter, 5.3 per cent from the second to the third, and an estimated 4 per cent from the third to the fourth. During the Fifties and early Sixties, a 5 per cent growth of money was extraordinarily high and, if long maintained, tended to cause accelerating inflation. With the strongly imbedded inflation in 1970, however, spending could be permitted to expand faster than the growth of productive capacity and still place some downward pressure on prices. By permitting a growth in spending at a rate faster than in previous attacks on inflation, costs in terms of lost production and unemployment may be expected to be kept at relatively low levels.

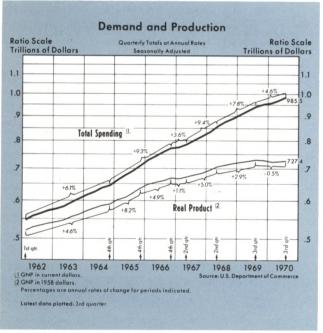
Short-term interest rates declined sharply during 1970. There was a slowing in the demand for funds, reflecting a moderated growth in spending following from the monetary restraint of 1969. Also, there were increasing supplies of short-term funds resulting from the more rapid injection of money during 1970 and from the temporary use of proceeds of long-term financing. Yields on prime 4- to 6-month commercial paper averaged 5% per cent in early December, down from 9 per cent in early January. The three-month Treasury bill rate was below 5 per cent in early December, compared with nearly 8 per cent at the beginning of the year. Reflecting the same forces, the rate charged prime business customers by commercial banks was lowered from 8½ per cent early in the year to 8 per cent in March, to 7½ per cent in September and to 7 per cent in November. The discount rate (the interest rate charged member banks by Reserve Banks) was out of touch with market rates early in the year, but as market rates declined markedly, the discount rate was reduced from 6 per cent to 5½ per cent in November and early December to keep it in line with other rates.

Long-term interest rates remained relatively high during 1970; mortgage rates changed little on balance while yields on municipal and Government securities declined from peak levels. Yields on highest-grade seasoned corporate bonds averaged about 7.8 per cent in early December, about the same as a year earlier. The continued high rates, despite some slowing in the growth of spending and presumably in overall credit demands, reflected in considerable measure the strongly imbedded inflationary expectations. With great inflationary expectations, incentives

to borrow long are increased while incentives to lend at long term are reduced. Demands for long-term funds may also have been bolstered by an attempt to improve liquidity.

#### Economic Developments in 1970

Total spending on goods and services rose at a 4.6 per cent annual rate during the four quarters ending with the third quarter of 1970, despite some large cutbacks in production of war goods. This was approximately the growth in spending the St. Louis model had simulated given the monetary expansion which occurred. In the fourth quarter spending was interrupted by the major automobile strike, but much of the loss is expected to be made up within a few months after resumption of full production. By comparison spending rose at an excessive 8 per cent average rate from late 1964 to late 1969.



Government spending rose more rapidly than private spending in 1970. Federal Government expenditures rose at a 7.4 per cent annual rate in the first three quarters of the year, state and local government outlays expanded at an 11.1 per cent rate, and private spending increased at a 4.4 per cent rate. Defense outlays were reduced at a 5 per cent rate, while spending on all other programs of the Federal Government rose at a rapid 16 per cent rate.

Prices continued to rise in 1970 as a result of previous expansionary fiscal and monetary actions and consequent excessive total spending. However the acceleration of price increases was stopped early in 1970,

and in the fall of the year signs became widespread that inflation was receding moderately. Prices of the sensitive thirteen raw industrial commodities have declined since early 1970. Overall prices rose at a 4.4 per cent annual rate from the first to third quarter and probably continued to rise at approximately that pace in the fourth quarter. By comparison, these prices went up at a 5.3 per cent rate from late 1968 to early 1970. Consumer prices have risen at a 5 per cent rate since April, after increasing 6 per cent in the previous twelve months.

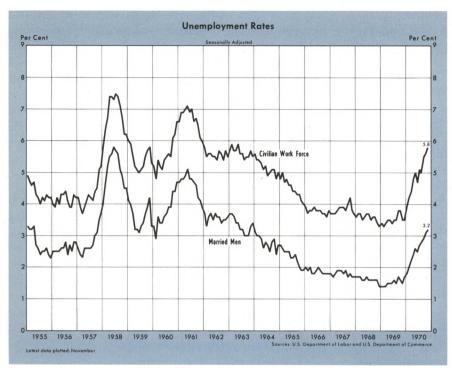
Hourly earnings in manufacturing, adjusted to exclude effects of overtime and interindustry shifts, have risen 6.6 per cent in the last twelve months. Adjusted for price increases, these earnings have increased about 1 per cent. When the value of fringe benefits is added, real earnings have probably increased more than estimated output per man hour. Nevertheless, these figures raise some doubt about the belief that the recent inflation has been the result primarily of a wage-push situation.

With prices rising about as fast as total spending, production was changed little on balance during the first three quarters of 1970. There was a small net decline in the first quarter largely offset by slight rises in the second and third quarters. Production probably fell again in the final quarter of the year, but this was mainly the result of the automobile strike and probably did not reflect cyclical influences.

During 1970 the labor force grew, capital was invested, and there were advances in technology. As a result, productive capacity was rising while total output changed little on balance. Accordingly, resources not utilized or underutilized increased. Competition from these resources was the main force which tended to reduce the upward momentum of prices.

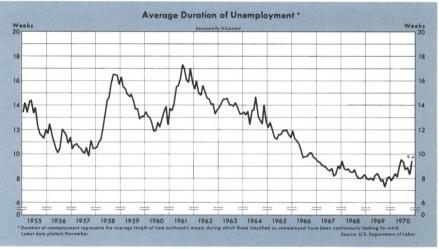
One indication of the utilization of capacity is provided by the employment rate. Employment declined from 95.8 per cent of the labor force in the first quarter of 1970 to about 94.5 per cent in the early Fall. Later in the year employment drifted a little lower in response to the interruption caused by the auto strike. In terms of married men, employment declined from 98 per cent early in the year to 97.1 per cent in the Fall.

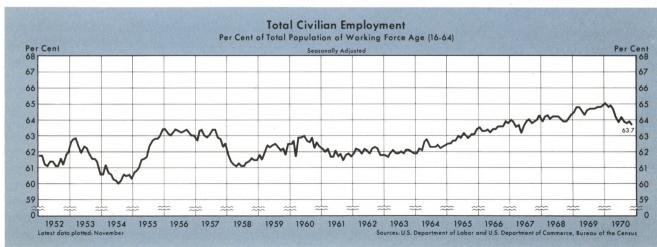
All unemployment does not represent excess capacity. Workers leave jobs in search of better opportunities; some activities are seasonal; some people have but marginal production capacity; and some become



range. In the economic expansion between the 1958 and 1960 recessions, unemployment reached a low of 5 per cent. In 1958 and again in 1960 when downward pressure was applied to inflationary pressures, unemployment rose temporarily to 7 per cent and above. When unemployment remained below a 5 per cent rate in 1965 through 1969, inflationary pressures intensified. Given minimum wage laws and other features of American labor markets, it may be that 5 per cent rather than 4 per cent or less unemployment is about the practical non-inflationary minimum. Attempts to maintain the unemployment rate at some artificially low level may succeed temporarily but ultimately will only assure accelerating inflation.

unemployed temporarily when businesses are forced to cut back or close because they are no longer competitive. Comparisons with previous periods may be helpful in evaluating the present unemployment rates. The recent 5.8 per cent rate of unemployment (including strike effects) compares with a 5.2 per cent rate in 1964, the last year of pronounced economic expansion without accelerating inflation. In 1962 and 1963 unemployment remained in the 5½ to 6 per cent





Another measure of the utilization of labor is the number of people actually working relative to the civilian population of working force age. The November level of 63.7 per cent is down from the peak, but still higher than anytime in the Fifities or Sixties before late 1966. Another indication of the magnitude of the employment situation is the duration of unemployment. This past fall the average length of unemployment was about 9 weeks, up from about 8 weeks in 1969, but still substantially below the 12 weeks or longer from 1958 to early 1965.

Corporate profits, after taxes, declined from a peak of \$49.7 billion in the second quarter of 1969 to \$45.4 billion in the third quarter of 1970. Since the inflation began increasing in 1965, corporate profits have declined from 6.8 per cent of gross national product to 4.6 per cent.

# Policy Choices for 1971

As the new year begins, the critical question still remains, "How rapidly should the nation proceed in reducing inflation?" Prices are rising more slowly now than a year ago, and some further downward pressure has been accumulated that may be expected to reduce the inflation further in 1971. Even so, prices are likely to continue rising at a rather fast pace. At the same time, production is below capacity, some are unemployed, and the economy is sluggish.

The choice for the nation, as a year ago, is one of the lesser of evils. It serves no purpose to pretend there is an easy, costless, quick cure to inflation. The adverse consequences of the mistakes of 1965-68 continue to bear heavily on the nation. To focus solely on either the inflation or the capacity utilization problem is apt to intensify the pain and suffering from the other. Some compromise has to be made. This Bank has again made simulations of prospective economic conditions, assuming various courses of monetary action. For the model simulations, Federal Government expenditures through second quarter of 1971 have been estimated by this Bank and have been projected thereafter to grow at an 8 per cent annual rate. The calculated figures were smoothed judgementally in the lower half of the table on page 12 to remove irregular fluctuations.

One course of action which might be followed would be to continue to seek a 5 per cent growth rate of money, the rate planned in the last-released record of policy actions. With such a growth of money, total spending growth might accelerate from the 4.5

per cent rate of the past year to about a 6.5 per cent rate in late 1971. If such a growth of money were maintained, spending might be expected to continue to grow at about the 6.5 per cent rate in the first half of 1972. Real output, which declined slightly in the past year, would probably be growing at about a 2.5 per cent rate a year from now. These simulations are designed only to project most probable cyclical and trend influences of money and the Federal budget on the economy. They do not purport to project erratic short-term developments, such as a bulge in spending and production after the auto strike and any dip in case of a steel strike.

The model indicates that with the 5 per cent growth of money, inflation would most likely still remain strong at the end of next year, with overall prices rising at about a 4 per cent annual rate. Recently, prices have been rising at about a 4.5 per cent pace. Unemployment would most likely move up from the recent 5.5 per cent of the labor force (excluding strike effects) to around a 6 per cent level.

If the nation desired a quicker approach to reducing inflation, a 2 per cent growth rate of money might be undertaken. The simulation indicates that spending under this policy might be down to about a 3.7 per cent growth rate a year from now. Inflation would be reduced slightly faster than with the 5 per cent rate of growth of money, dropping to about a 3.5 per cent rate a year from now and to about a 2.8 per cent rate by mid-1972. Production, however, would be very sluggish, and unemployment might rise to about 6.5 per cent of the labor force in late 1971 and to over 7 per cent by mid-1972. With unemployment at such a level, the temptation to restimulate the economy would become great regardless of inflationary consequences.

If it is desired to attempt to hold the adjustment costs in terms of lost production as low as possible in 1971 and early 1972 while placing some downward pressure on prices, a faster 8 per cent rate of money growth might be selected. In this case, model simulations indicate that spending might rise to about a 9.5 per cent growth rate in the Fall of next year and remain at that pace in the first half of 1972. Production would be rising at faster than an assumed 4 per cent long-term trend in late 1971 and in early 1972, and unemployment would probably not reach 6 per cent and would be declining in late 1971 and in early 1972. Prices, however, would continue to rise for a long, long time, since the rate of increase would be inching down very slowly. The total cost in lost pro-

	1970			1971				1972	
	<u>III</u>	<u>IV</u>	1	<u>11</u>	111	<u>IV</u>	1	11	
	Actual	Estimated			Project	ions			
Assumed Rates of Change in Money Stock		GENERATED	DIRECTLY I	SY THE ST.	LOUIS MC	DDEL			
Per Cent									
Annual Rate of Change i	n:								
Nominal GNP	6.1%	6.3%	5.5%	4.3%	6.2%	3.1%	2.7%	3.5	
Real GNP	1.4	1.6	1.0	0.1	2.1	-0.6	-0.6	0.6	
GNP Price Deflator	4.6	4.6	4.5	4.2	4.0	3.7	3.3	2.9	
Inemployment Rate	5.2	5.4	5.6	5.9	6.2	6.3	6.7	7.0	
Corporate Aaa Rate	8.2	7.9	8.0	8.0	7.9	7.7	7.5	7.3	
Per Cent									
Annual Rate of Change i	n:								
Nominal GNP	6.1	6.3	6.1	6.1	9.0	6.4	5.8	6.5	
Real GNP	1.4	1.6	1.6	1.7	4.7	2.3	2.0	3.0	
GNP Price Deflator	4.6	4.6	4.5	4.3	4.2	4.0	3.8	3.5	
Jnemployment Rate	5.2	5.4	5.6	5.8	6.0	6.0	6.1	6.3	
Corporate Aaa Rate	8.2	7.9	7.9	7.9	7.9	7.7	7.6	7.4	
3 Per Cent									
Annual Rate of Change i	n:								
Nominal GNP	6.1	6.3	6.8	7.8	11.9	9.6	8.9	9.6	
Real GNP	1.4	1.6	2.2	3.4	7.3	5.2	4.6	5.3	
GNP Price Deflator	4.6	4.6	4.5	4.4	4.3	4.3	4.2	4.1	
Unemployment Rate	5.2	5.4	5.6	5.7	5.8	5.6	5.5	5.5	
Corporate Aaa Rate	8.2	7.9	7.7	7.8	7.8	7.7	7.6	7.5	
	AS S	MOOTHED T	O REMOVE	IRREGULA	R FLUCTUA	TIONS			
2 Per Cent									
Annual Rate of Change	in:								
Nominal GNP	5.6%	6.0%	5.7%	4.8%	4.1%	3.7%	3.6%	3.5	
Real GNP	0.9	1.4	1.2	0.6	0.1	0	0.3	0.7	
GNP Price Deflator	4.7	4.6	4.5	4.2	4.0	3.7	3.3	2.8	
Unemployment Rate	5.2	5.4	5.6	5.9	6.2	6.3	6.7	7.0	
Corporate Aaa Rate	8.2	7.9	8.0	8.0	7.9	7.7	7.5	7.3	
5 Per Cent									
Annual Rate of Change	in:						, .	,.	
Nominal GNP	5.6	6.0	6.3	6.4	6.5	6.5	6.5	6.5	
Real GNP	0.9	1.4	1.8	2.1	2.3	2.5	2.7	3.0	
GNP Price Deflator	4.7	4.6	4.5	4.3	4.2	4.0	3.8	3.5	
Unemployment Rate	5.2	5.4	5.6	5.8	5.9	6.0	6.1	6.2	
Corporate Aaa Rate	8.2	7.9	7.9	7.9	7.8	7.7	7.6	7.4	
8 Per Cent									
Annual Rate of Change	in:								
Nominal GNP	5.6	6.0	7.2	8.5	9.5	9.5	9.5	9.6	
Real GNP	0.9	1.4	2.7	4.1	5.2	5.2	5.3	5.5	
GNP Price Deflator	4.7	4.6	4.5	4.4	4.3	4.3	4.2	4.1	
Unemployment Rate	5.2	5.4	5.6	5.7	5.8	5.6	5.5	5.4	
Corporate Aaa Rate	8.2	7.9	7.7	7.8	7.8	7.7	7.6	7.5	

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duction might be as great or greater under this course, if price stability is ever to be achieved, as it would be under a more aggressive approach, since actions to dampen inflation would have to be continued much longer.

#### Conclusions

Inflation in recent years has been one of the nation's most serious domestic economic problems. It causes inequities and inefficiencies, and prejudices the future viability of the economic system. The process of its elimination is inevitably causing an underutilization of labor and other resources. The first effective steps in eliminating the inflationary mistakes of 1965-68 were taken by the monetary authorities in 1969, yet price increases continued unabated throughout that year. Monetary actions were relaxed in early 1970 but have continued to be anti-inflationary. During 1970 the rate of inflation began ebbing, with overall prices rising at an estimated 4.5 per cent rate now, compared with a 5.5 per cent rate a year ago.

The transition to a lower rate of inflation has been painful for many. Real product has increased little, if at all, and contracts based on expected continued rapid inflation are costly to fulfill. Yet, given the strongly imbedded inflation, the costs of reducing it have not been so great as one might have anticipated from previous attempts at arresting inflation in this country. Studies at this Bank indicate that the cutbacks in production and employment in the 1969-70 battle against inflation were smaller because the nation's money stock was not permitted to decline, as it did in previous periods of correction. Since early 1969 money has expanded at an average 4 per cent annual rate.

Simulations using the Bank's model indicate that if money continues to rise moderately, further progress will be made in 1971 in reducing the pace of price increases. However, the battle will not be won easily and without cost. Expectations of rising prices are still strong. Some prices, such as those in term contracts and union wages, were relatively inflexible during the excessive spending of the late 1960's. Other prices were temporarily held back by inertia, a money

illusion, lack of knowledge of costs, public opinion and Government regulation. As these wages and prices now move toward equilibrium levels, the increased production costs place upward pressure on other prices.

Some believe that prices and wages could be held stable with much less cost by merely "controlling" them. It seems so simple to just have the Government outlaw inflation. Suggestions have taken a variety of forms from a broadscale rigid control of all prices, with severe penalties for violations, to a temporary freeze, to a control of certain key prices, and even to using persuasive tactics called "jawboning." Yet, past attempts to control prices both here and abroad indicate that such controls have been largely ineffective. Controls are frequently circumverted through blackmarkets, quality deterioration, clever pricing, or other devices. Controls are costly to adminster, impinge on freedom, create shortages (usually requiring rationing), misallocate resources, and frequently slow the rate of economic growth.

A contribution can be made to a more rapid solution of the problems of inflation and underutilization of capacity by improving the market system. Such actions might include reducing subsidies, tariffs and import quotas, widening the scope of the anti-trust laws to cover more monopolistic practices, increasing the skills of workers, eliminating outdated building codes and other barriers to greater productivity, and modifying the minimum wage laws in the interest of improving job opportunities for teenagers and the handicapped.

Progress has been made on the inflation problem. Costs have occurred in reducing it, but so far they have been less than in any previous attempt. Continued perseverance along the general course charted in the past two years would seem to be appropriate in 1971. As long as total spending continues to grow at a moderated rate, both the inflation and the capacity utilization problems will be gradually solved as the effects of past maladjustments atrophy. Experience demonstrates that Government actions designed to shock the economy into a quicker adjustment have usually had net adverse consequences.



# Observations on Stabilization Management

A Speech by HOMER JONES, Senior Vice President, Federal Reserve Bank of St. Louis, to the Joint Luncheon, Southern Economic Association and Southern Finance Association, Atlanta, Georgia, November 13, 1970

HERE IS a prevalent idea that dynamic government action is necessary to effectively restrain prices and promote employment. This has been the prevailing view during the past twenty-five years.

I wish to pose two questions: First, is there evidence that active stabilization management has, on the whole, been desirably effective in the last twenty-five years? Second, does that quarter century of experience suggest that active stabilization management can be desirably effective in the future?

We may list five classes of stabilization tools which are most commonly considered as means of achieving more stable high-level non-inflationary growth, namely, fiscal, monetary, investment funds flow control, changes of economic structure, and price and wage controls. I would like to look at each of these tools in turn.

# Fiscal Management

Let us first look at fiscal management. In undertaking to judge the record of fiscal management, we are faced with a problem of measurement. There are a variety of possible measures of fiscal action: among these are Federal Government expenditures, high-employment tax receipts, national income accounts tax receipts, high-employment surplus or deficit, and national income accounts surplus or deficit. Scholars are far from agreement as to which of these measures best indicates the influence of fiscal management on total demand, or how they could be amalgamated as a single indicator of fiscal influence. In view of such a confused situation regarding the measurement of fiscal management, it is no wonder that fiscal manage-

ment has been less than successful in the past twentyfive years.

In any case, no matter how one measures fiscal management, I find no evidence that these magnitudes have followed courses which, in any plausible way, have been related to a desirable course for total spending, for real product, or for prices. In my reading of economic history, I do not find a consistent and predictable relation convincingly demonstrated between any fiscal measure and economic activity. Indeed, I would suggest it is more likely that the fiscal management which we have had has contributed to instability and to limitations on average growth, either directly or indirectly, through its influence on monetary management.

Let me turn to the question of what we now know about whether fiscal management may in the future be able to contribute to stabilization, high employment and growth. That fiscal variations have not on the whole contributed to a successful course of the economy in the past does not necessarily mean that they have not had an effect, or that they could not conceivably have a desirable effect in the future.

Whether fiscal manipulation might be capable of promoting desired economic ends in the future depends on two considerations, the economic and the political. With respect to the economic, we have not been lacking in theories about fiscal influence during the past forty years. Where we stand now about the theories, I shall not attempt to comment. But I shall comment on what research seems to show about a relation of fiscal developments to economic activity. My chief point is that research has not found consistent

relations, independent of monetary action, between any of the standard measures of fiscal action and simultaneous or subsequent changes in aggregate economic events. The large models which have dealt with this matter have not successfully disentangled the influence of fiscal from the influence of monetary factors. Casual empiricism of observing the course of fiscal management, together with total spending, real production, and prices, does not yield positive conclusions. Our econometric studies at the St. Louis Federal Reserve Bank have not yielded positive relations between high-employment taxes or the high-employment surplus-deficit, when the monetary factors have been held constant. These studies have vielded some positive results with respect to the influence of Federal expenditures, but they are not very impressive.

Some observers may not be impressed with our results. In response, I can only say that we await either suggestions as to how we can make better tests, or the results of the work of others which find, from experience, plausible useful independent relations between fiscal actions and crucial economic developments.

But, if we were to find significant and stable relations between fiscal actions and economic developments, could we put them to practical use? Successful application of the knowledge would depend upon useful forecasting of other economic variables which would need to be offset or supplemented. Given the general record, I think we cannot be optimistic about the imminent practicality of such forecasting.

Finally, experience with respect to the political implementation of fiscal management is not impressive. I am not sure that the political problem has made past experience any more adverse than it otherwise would have been; but even if economists did know how to actually manage a budget beneficially, the application might very likely be adverse after political manhandling. It may be that the less it is suggested that the budget is something to be manipulated, the less likely politically we are to get adverse budget results.

# Monetary Management

Let me now turn to our monetary experience. On the whole, it is similar to the fiscal. As in the case of fiscal management, we are plagued by lack of agreement as to proper magnitudes of measurement. But using any of the common measures, examination of the experience of the past twenty-five, fifteen, or ten years, does not indicate that active monetary management has in fact contributed beneficially to stability and optimum levels of employment, prices, and growth. Here again it seems possible that fluctuations in strategic monetary variables may have contributed more to failure to achieve these objectives.

But, even though active monetary management may not in actuality have contributed desirably, experience suggests that monetary developments have had reasonably predictable effects on total spending, real product, employment and prices. Casual empiricism, the research of others which is persuasive to me, and our own econometric studies at St. Louis, have long indicated strong, roughly predictable, relations between monetary action, intentional or unintentional, and the course of the economy. Here, as with our own studies of fiscal management, I realize that many students of these matters may not be fully impressed, if at all. But, here again, we are open to suggestions as to better means of studying past relations between monetary actions and total spending, real product and prices.

Assuming that we have found relations between monetary actions and the course of strategic economic variables, does this mean that we can expect to engage usefully in active monetary management in the future? Here again, we may question whether active monetary manipulation, any more than fiscal, can be expected to eliminate short-run fluctuations as envisaged by the proponents of fine tuning. Because of lags in the effect of monetary actions, we would have to forecast successfully, many months in advance, the course of other factors to be offset or supplemented, and the forecasting record is very poor. And, while I believe that we have positive results regarding monetary effects, we cannot claim that the timing of results is a very exact matter. I therefore conclude that we cannot in the near future engage intelligently in short-run manipulative monetary management.

#### Other Stabilization Tools

I now turn briefly to three other social controls which are frequently offered as stabilization tools, though sometimes only as supplements to general fiscal and monetary controls: namely, administrative allocations of the flow of investment funds; structural changes in economic institutions, such as changes in the labor market; and wage and price controls.

Proposed and actual investment fund allocation management really has nothing to do with stabilization management, but rather with providing a general alternative or supplement to allocation by means of market forces. It is frequently said that tight money squeezes especially and unjustly particular fields of real investment. This matter has entered into rationalizations of Regulation Q management. Actually, adverse effects on certain sectors, such as housing, arise not from tight money policy but from great monetary expansion as in the 1965-68 period. A steadier monetary expansion, which would probably be desirable on all counts, would remove much of the alleged need for administrative allocation of investment funds. But if there were still a call for allocation different from that provided by the market, this would have nothing to do with stabilization management but with continuous noncyclical economic policy.

With respect to structural changes such as reducing unemployment through improvements in the labor market, these stand on their own merits and have nothing to do with cyclical stabilization policy.

With respect to labor power and corporation power, and their contributions to inflation, I am inclined to say that possible improvements here have little to do with cyclical stabilization. But I suppose there are two ways in which wage-price controls or guidelines may be brought in. First, proponents suggest that wage-price controls are an instrument that should always be available and would come into play in the boom phase of a cycle and then could be held in abeyance at other times. A second, closely related, suggestion is that wage and price controls will be used continually. In this latter instance fiscal and monetary policy would foster a total demand so high that production, employment, and growth would be maximized while demand would not be dissipated in higher prices.

Experience with wage-price guidelines has not been propitious. The guidelines were instituted at a time when we were not having an inflation problem in 1962-64. Then, as they obviously failed in 1965 and 1966, they were quietly dropped. Now, in a time of recession (I do not consider this an evil word, or that it is evil for anything ever to recede, ever so slightly), those who inaugurated the guidelines in recession and abandoned them in inflationary boom propose their reinauguration as a price panacea. It would appear that wage-price controls, rather than being an instrument to be always in effective operation or to be

used in boom and laid aside otherwise, are instead to be abandoned during inflationary boom and at all other times to be actively used. On the contrary, I believe, as Paul Samuelson has recently written, "No mixed economy has been able yet to find a satisfactory incomes policy." (New York *Times*, October 30.)

I personally conclude that experience shows wageprice controls have no semblance of beneficial practicality in any economy which retains any pretence of market determination of the allocation of resources. And we have no evidence that a chronic policy, pressing up inordinately on total spending, will give a higher or steadier employment or production than otherwise, without chronically accelerating inflation. The apparently widespread popular call for administered prices and wages indicates that we have done a poor job teaching economic history and of teaching the role of prices in allocating resources and product.

# Historical Background

It may be useful to try to reconstruct why and how we developed the dogma that active fiscal management was necessary and practical to avoid stagnation at and about a low level of activity. I suggest that out of desperation in the 1930's we had to find something that we could do. The desperate and largely wrong panaceas of the Keynes of 1936 resulted because the prescriptions of the Keynes of thirteen years earlier were ignored.

Possibly we now have again an opportunity to profit from the Keynes of the Tract on Monetary Reform of 1923. Then, Keynes was fighting to achieve monetary management for sound domestic economic stability, freed from the shackles of fixed exchange rates. But Keynes lost, and so occurred one of the great tragedies of modern economic and political history. England returned to the shibboleth of the fixed exchange rate. and this, in turn, led to the suicidal world monetary policies of 1925-33. Then, in desperation, were created all the elaborate theories that fiscal management could substantially solve the problems of economic instability, and along with this the theory that in the absence of finely-tuned fiscal policy an economy might most likely stabilize at or fluctuate far below optimum employment and production.

Now we should put ourselves back with the Keynes of 1923. We should abandon the chimera that it is either necessary or practical to actively manage a fiscal policy in the interest of stable high-level economic activity. Our experience indicates that, even as in 1923, the main key to a satisfactory operation of

the economic system is not to permit a fixed exchange rate system to dictate disastrous monetary contraction, as in 1925-33. The other side of the coin is that, given this freedom, we should equally avoid inordinate monetary expansion.

It may be instructive to consider how much happier we might have been in the last forty years if Keynes had been successful in 1923-25 — if Britain had not hung about her neck the albatross of a \$4.87 pound, and the other leading nations of the world had not subsequently been preoccupied with defending their currencies. We would have had a good chance of avoiding 1929-33 and all the troubles which that period brought in train economically, politically, and militarily.

If we have had reasonably good economic performance during the past twenty-five years in this country, and in most other countries, we cannot ascribe it to the success of active manipulation of fiscal and monetary management. Rather, it is due to the inherent strength of what are still, on the whole, free market economies. It has depended upon avoiding, on the whole, shocking monetary and fiscal mismanagement such as in England in 1925, and in the United States in 1929-33 and 1936-37.

Having said so many negative things, let me make a few positive remarks. In the field of fiscal management we should avoid gyrations of the high-employment surplus or deficit. For purposes of promoting national saving, investment and growth, I would prefer a substantial high-employment surplus. But this is less crucial than budget stability. Similarly, in the monetary field, the most important objective for policy is to avoid gyrations. Until we can get better information upon which to base our actions, I believe a steady growth of money gives a better chance of getting a steady growth of total spending, real product and employment, and a tolerable price trend than does any other procedure. In such a fiscal and monetary setting, the market economy has a better chance of following the high stable growth trend which we desire than does any alternative procedure apparent to us at present. But this is not easy. We know from experience that avoiding unintended gyrations in strategic fiscal and monetary variables requires eternal vigilance.

#### **Conclusions**

In conclusion, I have two points, one concerning what economists should be teaching, and the other dealing with the problem of current policy.

Economists have spent a generation teaching that there are some magic tools of fiscal policy, and more recently of monetary policy, which, if managed according to some scientific principles, supposed to be well known to the experts, can be used and must be used incessantly and with finesse to give us satisfactory operation of the economy. Will the profession now have enough fortitude to face and teach the facts? We should now, while saving as much face as possible, tell the public that we do not know how to finely manage the economy, and that, the way the fiscal and monetary tools have been used in the last twenty-five years, manipulation has probably done more harm than good. We should inform the public that the best we can do - and it will be a major improvement - is, on the one hand, to avoid mistakes such as the monetary and fiscal excesses of 1965-68 and, on the other hand, to avoid letting monetary expansion be led around by fixed exchange rates and by money market conditions.

Finally, where are we just now and what course shall we follow? Despite my negative remarks about active, positive fiscal and monetary management, bad management can give us massive trend disturbances, as did the monetary collapse of 1929-33, the war inflations, and the inflation of 1965-69.

Such massive disturbances, which could and should have been avoided, not only have their immediate social evils, but they create the problem of what, if anything, fiscal or monetary management can do to restore stability. It is this last problem we have now been struggling with for the past two years.

Let me emphasize that our present not too happy situation derives from gross fiscal and monetary mismanagement in 1965-68, when with shocking suddenness, we accelerated Federal expenditures, turned a high-employment surplus into a great deficit, and accelerated monetary expansion. Having made these grave errors, which brought inflation and expectations of inflation, what to do has been a great problem.

It is sometimes said that we are experiencing the worst of all possible worlds — we continue to have inflation and real product is not growing. But I believe that this situation is the inevitable result of the best possible choice among the three alternatives which were available to us. First, we could have fostered a total spending which would have temporarily better maintained production and employment, but which would have provided accelerating inflation.

Second, we could have achieved a faster reduction of inflation, but that would have involved less real product and more unemployment than we have achieved. Third, we could choose a course between these alternatives, and this we have done.

The course we chose has meant, is meaning, and, if pursued, will continue to mean, only slowly declining inflation, retarded growth of real product, and rising unemployment. If we had not made the gross errors of 1965-68, we would not subsequently have had the painful choice between accelerating inflation and the restricted production and employment which we are now experiencing.

Given our decisions and our present situation, we can now expect that, if we avoid erratic fiscal and monetary action, real product and employment growth will accelerate gradually over the next few years, and the upward trend of prices will end or become nominal. In time we can obviate the results of the 1965-68 mistakes and can achieve a practical

optimum of employment, real growth and price trends.

In my judgment, given the errors of 1965-68, subsequent developments have been as good as could be expected. One trouble has been that the economics profession has led the public to believe that there could be miraculous correction of the price trends without pain. That was not possible in 1969-70 and it is not now possible in the immediate future.

We should not pretend to the public that there is some "game plan" which will magically and painlessly avoid the results of the errors of 1965-68 along some time-path of short duration. It is sometimes said that the fiscal and monetary actions since June 1968 or since January 1969 have grossly failed. I do not think they have failed. They have done what was in the nature of the economic universe that they could accomplish. And I cannot see, on a basis of hind-sight, that we could have made another choice that would have given us a better pattern of results.

#### MONEY SUPPLY REVISED

ATA FOR currency held by the public, demand deposits held by the public, and time deposits at all commercial banks have been revised by the Federal Reserve Board. The revision includes a minor adjustment for seasonal factors and for new benchmark data on nonmember bank deposits. In addition, a major revision of the demand deposit component of money was made in order to eliminate a measurement error created by a rising and volatile volume of transactions carried out by certain specialized international banking institutions.<sup>1</sup>

The underestimation arose from including items arising from transactions made by international banking institutions in "cash items in the process of collection" while being cleared between U.S. banks, and also from including the deposits of these international banking institutions in interbank deposits by U.S. banks. Since both "cash items" and interbank deposits are subtracted from gross demand deposits in computing the measured money stock, double subtracting resulted. The underestimation was corrected by adding to gross demand deposits the liabilities of international banking institutions which correspond to "cash items" on the books of U.S. commercial banks.

The revision raised the level and the rates of change of the money stock. For example, money averaged \$206 billion in October for the old series, compared with \$213 billion for the new series. The 5.5 per cent rate of change in money from December 1969 to November 1970 compares with a 3.8 per cent rate using the old series.<sup>2</sup> In the previous eleven months from January 1969 to December 1969, money grew at a 3 per cent rate according to the new series and at about a 2 per cent rate according to the old series.

<sup>&</sup>lt;sup>1</sup>These institutions are agencies and branches of foreign banks and subsidiaries of U.S. Banks organized under the Edge Act to engage in international banking.

<sup>&</sup>lt;sup>2</sup>November estimated for the old series.

#### FEDERAL RESERVE SYSTEM ACTIONS DURING 1970

	Per Cent Change		
	11/69 to 11/70	12/68 to 12/69	
Federal Reserve Holdings of Government Securities	6.9%	9.5%	
Federal Reserve Credit	4.6	5.2	
Total Reserves of Member Banks		-0.1	
Monetary Base		3.1 3.1	
Money Stock			
Discount Rate			
In effect January 1, 1970	6 %		
November 11, 1970*	5¾		
December 1, 1970*	5½		
In effect December 15, 1970	5½		

#### Reserve Requirements\*\*

	Percentage Required					
	Net Demand Deposits up to \$5 Million		Net Demand Deposits in Excess of \$5 Million		Time Deposits	Time Deposits
	Reserve City Banks	Other Mem- ber Banks	Reserve City Banks	Other Mem- ber Banks	up to \$5 Million & Savings Deps.	in Excess of \$5 Million
In effect Jan. 1, 1970	17	$12\frac{1}{2}$	$17\frac{1}{2}$	13	3	6
Oct. 1, 1970			$17\frac{1}{2}$	13 <sup>†</sup>		5 <sup>†</sup>
In effect Dec. 15, 1970	. 17	12½	17½	13	3	5

#### Margin Requirements on Listed Stocks May 6, 1970 .....65% In effect December 15, 1970

#### Maximum Interest Rates Payable on Time & Savings Deposits

Type of Deposit	In Effect Jan. 1, 1970	Jan. 21, 1970	In Effect Dec. 15, 1970
Savings Deposits		41/2%	41/2%
Other Time Deposits:			
Multiple maturity:			
30-89 days	<b></b> 4	41/2	41/2
90 days to 1 year	5	5	5
1 year to 2 years	5	$5\frac{1}{2}$	$5\frac{1}{2}$
2 years and over	5	53/4	53/4
Single maturity:			
Less than \$100,000			
30 days to 1 year	5	5	5
1 year to 2 years	5	51/2	51/2
2 years and over	5	53/4	53/4
\$100,000 and over:			
30-59 days	5½	††	††
60-89 days	53/4	††	††
90-179 days	6	63/4	63/4
180 days to 1 year	61/4	7	7
1 year or more	61/4	$7\frac{1}{2}$	$\frac{.}{7\frac{1}{2}}$

<sup>\*</sup>Signifies date that first Federal Reserve Bank adjusted discount rate.

\*\*Beginning October 16, 1969, a member bank is required under Regulation M to maintain, against its foreign branch deposits, a reserve equal to 10 per cent of the amount by which (1) net balances due to, and certain assets purchased by, such branches from the bank's domestic offices, and (2) credit extended by such branches to U.S. residents exceed certain specified base amounts. Regulation D imposes a similar 10 per cent reserve requirement on borrowings by domestic offices of a member bank from foreign banks, except that only a 3 per cent reserve is required against such borrowings that do not exceed a specified base amount.

†Beginning October 1, 1970, a member bank is required to maintain reserves against funds received as the result of issuance of obligations by affiliates of the bank, including obligations commonly described as commercial paper; the requirement on such funds with a maturity of (1) less than 30 days is either 17½% or 13%, the same as the requirement on net demand deposits in excess of \$5 million and (2) over 30 days is 5%, the same as the requirement on time deposits in excess of \$5 million. See F. R. Bulletin, September 1970, pp. 721, 722.

<sup>††</sup>The rates in effect beginning January 21, 1970 through June 23, 1970, were 6½ per cent on maturities of 30-59 days and 6½ per cent on maturities of 60-89 days. Effective June 24, 1970, maximum interest rates on these maturities were suspended until further notice. Note: A member bank may not pay a rate in excess of the maximum rate payable by state banks or trust companies on like deposits under the laws of the state in which the member bank is located.

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