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# MONETARY AGGREGATES AND MONEY MARKET CONDITIONS 

Prepared for the Federal Open Market Committee

By the Staff
BOARD OF GOVERNORS OF THE FEDERAL RESERVE SYSTEM

MONETARY AGGREGATES AND MONEY MARKET CONDITIONS

## Recent developments

(1) $M_{1}$ increased at about a 5 per cent annual rate in May but there was an acceleration in early June, so that growth for the May-June period now appears likely to fall just under the 7 per cent upper end of the Committee's range of tolerance. $M_{2}$ has displayed a generally similax pattern of monthly change, rising at a $5 \frac{1}{2}$ per cent annual rate in May and then at a considerably stronger pace so far in June, when there has been a larger than expected rise in large time deposits other than money market $C D$ 's. For May and June combined, $M_{2}$ appears likely to grow at a rate roughly equal to the $7 \frac{1}{2}$ per cent top of its range of tolerance. And RRD growth is near the upper end of its range.

Growth of Monetary Aggregates and RPD's in April-May Target Period

| Reserve and Monetary Aggregates (Growth at SAAR in per cent) | Range of Tolerance |  | Latest Estimates |
| :---: | :---: | :---: | :---: |
| RPD's | 13-20 |  | 19.4 |
| $\mathrm{M}_{1}$ | 3-7 |  | 6.7 |
| $\mathrm{M}_{2}$ | 432-72 |  | 7.6 |
| Memo: $\quad$ Federal funds rate | 11-113 ${ }^{\frac{1}{1 /}}$ | Avg. for week | or statement ek ending |
| (per cent per annum) |  | May 22 | 10.96 |
|  |  | June 5 | 11.45 |
|  |  | June 12 | 211.60 |

1/ The range incorporates the increase in the upper limit agreed upon in response to the wire of June 10.
(2) Growth in the bank credit proxy over May and June is estimated at an average annual rate of 14 per cent, below the extraordinary April pace but still strong. Banks greatly increased their borrowings in the $C D$ market in May in view of the continued generally strong loan demands and in anticipation of large maturities in June. In late May and early June, $C D$ growth has slowed substantialiy, however. Borrowing in the Euro-dollar and commercial paper markets was also relatively strong until late May and then abated,
(3) Deposit growth at nonbank thrift institutions was at only a $1 \frac{1}{2}$ per cent annual rate in May, and available data for early June suggests that inflows have picked up only slightly. This conforms generally to the experience of banks with respect to passbook savings and small time deposits. Time and savings deposit accounts at banks subject to Regulation $Q$ ceilings have shown little, if any, growth in recent months. Growth in bank time deposits has been in the form of money market $C D$ 's and other time deposits over $\$ 100,000$.
(4) Short- and long-term interest rates have fluctuated in a relatively narrow range in recent weeks. At times during the intermeeting period, market sentiment appeared to be developing that interest rates had reached peak levels and were about to decline. Scattered deciines in bank prime loan rates gave credence to this view, and the stock market rallied. Market interest rates showed little change, because the money market remained taut and the Account Management sold a large block of bills timed so as to help dampen market expectations of rate declines.
(5) With the potential for a resurgence in bullish sentiment still present, however; Committee members concurred with Chairman Burns' recommendation of June 10 that the upper limit of the funds rate range be raised to $11 \frac{3}{4}$ per cent, on the understanding that the Desk would use this leeway if market interest rates came under downward pressure or if the monetary aggregates began growing at rates that appeared to be testing the upper limits of their tolerance ranges. In recent days, given the latest estimates for the aggregates, the Desk has been aiming at a Federal funds rate in the area of $11 \frac{3}{2}-11 \frac{3}{4}$ per cent. The 3 -month bill rate was about 8.30 per cent at the close on Friday, up about 10 basis points from its level at the time of the last Committee meeting.
(6) The table on the next page shows (in percentage annual rates of change) selected monetary and financial flows over various recent time periods, Appendix table III compares money supply growth rates computed on a quarterly-average basis with those computed on a last-month-of-quarter basis. Projected figures on the two bases are shown in appendix table IV for the three alternatives presented in the next section.

|  | Average of Past Three Calendar Years | Past <br> Twelve <br> Months | $\begin{aligned} & \text { Past } \\ & \text { Six } \\ & \text { Months } \\ & \hline \end{aligned}$ | Past Three Months | Past Month |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1971 \\ -- \\ 1973 \end{gathered}$ | May ${ }^{1} 74$ over May ' 73 | $\begin{aligned} & \text { May }{ }^{1} 74 \\ & \text { over } \\ & \text { Nov. } 73 \end{aligned}$ | May ${ }^{\prime} 74$ <br> over <br> Feb. 174 | May ${ }^{174}$ over Apr. ${ }^{1} 74$ |
| Total reserves | 8.5 | 9.6 | 11.5 | 15.9 | 20.0 |
| Nonborrowed reserves | 7.6 | 7.7 | 4.8 | -0.1 | -9.0 |
| Reserves available to support private nonbank deposits | $\begin{array}{ll} \text { port } & \\ \text { s. } & 8.8 \end{array}$ | 10.8 | 11.6 | 17.7 | 20.9 |
| Concepts of Money |  |  |  |  |  |
| $M_{1} \quad \begin{gathered}\text { (currency plus demand } \\ \text { deposits) }\end{gathered}$ deposits) 1/ | 7.0 | 6.4 | 7.5 | 8.2 | 5.2 |
| $M_{2}\left(M_{1}\right.$ plus time deposits at commercial banks other than large CD's) | $\text { d's) } 10.4$ | 9.0 | 9.0 | 7.6 | 5.5 |
| $M_{3}\left(M_{2}\right.$ plus deposits at thrift institutions) | s) 11.7 | 8.3 | 8.4 | 7.0 | 4.4 |
| Bank Credit |  |  |  |  |  |
| Total member banks deposits (bank credit proxy adj.) | its 10.5 | 11.0 | 13.5 | 20.2 | 16.8 |
| Loans and investments of commercial banks 2/ | 12.8 | 12.1 | 13.1 | 14.5 | 10.2 |
| Short-term Market Paper |  |  |  |  |  |
| (Monthly average change in billions) |  |  |  |  |  |
| Large CD's | 1.0 | 1.7 | 3.2 | 4.9 | 5.8 |
| Nonbank commercial paper | . 2 | . 6 | . 3 | -. 8 | . 8 |

1/ Other than interbank and U.S. Government.
2/ Based on month-end figures. Includes loans sold to affiliates and branches.
NOTE: All items are based on average of daily figures, except for data on total loans and investments of commercial banks, commercial paper, and thrift institutions--which are derived from either end-of-month or last Wednesday-of-month figures. Growth rates for reserve measures in this and subsequent tables are adjusted to remove the effect of discontinuities from breaks in the series when reserve requirements are changed.

Prospective developments
(7) Alternatives for Committee consideration are summarized below (with more detailed figures shown in the table on p.5a). Alt. A Alt. B Alt. C

Targets (3rd \& 4th qtrs. combined)

| $M_{1}$ | 63 | 53 | 43 |
| :---: | :---: | :---: | :---: |
| $\mathrm{M}_{2}$ | 8 | 6雱 | 514 |
| Credit proxy | 10%ㅜㄹ | 93 | 83 |
| Associated ranges for June-July |  |  |  |
| RPD | 133-15 $\frac{1}{4}$ | 123 $\frac{1}{2}-14 \frac{1}{2}$ | 112 $\frac{1}{2}-13 \frac{1}{2}$ |
| $M_{1}$ | 63, $8 \frac{2}{2}$ | 6-8 | 53 ${ }^{2}-7 \frac{1}{2}$ |
| $\mathrm{M}_{2}$ | 73-912 | 7-9 | $6 \frac{1}{2}-8 \frac{1}{2}$ |
| Federal funds rate range (inter-meeting period) | 10-11 $\frac{1}{2}$ | 10\% ${ }^{2}-12 \frac{3}{4}$ | 112 $\frac{1}{2}-13$ |

(8) At its last meeting the Committee adopted longer-run targets for the second and third quarters combined that included a $5 \frac{1}{2}$ per cent annual rate of growth in $M_{1}$ from the March level. Extension of such a growth rate to year-end is illustrated by the dashed line in the chart on the following page. Rates of growth consistent with that extended path are shown in alternative $C$. These include a $4 \frac{3}{4}$ per cent annual rate of growth in $M_{1}$ between June and year-end, which would compensate for the estimated 7 per cent annual rate of growth for $M_{1}$ in the second quarter and would lead to an average $5 \frac{1}{2}$ per cent growth for the last three quarters of the year.

## MONEY SUPPLY AND LONGER RUN TARGET PATH


-5a-
Alternative Longer-Run Targets for Key Monetary Aggregates

1974 | May | 279.3 | 279.3 | 279.3 |
| :--- | :--- | :--- | :--- |
|  | June | 281.3 | 281.2 |
| 281.1 |  |  |  |
|  | July | 282.8 | 282.5 |
|  | Sept. | 285.6 | 284.9 |
|  | Dec. | 291.0 | 289.4 |
|  |  |  | 287.3 |

| $\mathrm{M}_{1}$ |  |  |
| :--- | :--- | :--- |
| Alt. A | Alt. B | Alt. C |
| 279.3 | 279.3 | 279.3 |
| 281.3 | 281.2 | 281.1 |
| 282.8 | 282.5 | 282.3 |
| 285.6 | 284.9 | 284.3 |
| 291.0 | 289.4 | 287.8 |


| 7.4 | 7.2 | 7.1 |
| :--- | :--- | :--- |
| 6.1 | 5.3 | 4.6 |
| 7.5 | 6.3 | 4.9 | 3rd $Q$.

4th
Months:
June
July

1974
May June July
Sept.
Dec.
Quarters:
1974
2nd $Q$.
3rd $Q$. 4th Q.
Months:

| Adjusted Credit Proxy |  |  |
| :---: | :---: | :---: |
| Alt. A | Alt, B | Alt. C |
| 477.8 | 477.8 | 477.8 |
| 482.1 | 482.0 | 481.9 |
| 484.4 | 484.2 | 483.9 |
| 495.5 | 494.9 | 494.0 |
| 507.4 | 505.5 | 503.1 |
| 20.1 | 20.0 | 19.9 |
| 11.1 | 10.7 | 10.0 |
| 9.6 | 8.6 | 7.4 |


| $\mathrm{M}_{2}$ |  |  |
| :--- | :--- | :--- |
| Alt. A | Alt. B | Alt. C |
| 592.9 | 592.9 | 592.9 |
| 597.8 | 597.7 | 597.5 |
| 601.4 | 600.9 | 600.3 |
| 608.9 | 607.5 | 605.6 |
| 622.1 | 618.1 | 613.2 |

Rates of Growth

| 7.9 | 7.8 | 7.7 |
| :--- | :--- | :--- |
| 7.4 | 6.6 | 5.4 |
| 8.7 | 7.0 | 5.0 |
|  |  |  |
| 9.9 | 9.7 | 9.3 |
| 7.2 | 6.4 | 5.6 |

Total Reserves

| Total Reserves |  |  |
| ---: | :---: | ---: |
| A1t. A | Alt. B | Alt. C |
| 36,500 | 36,500 | 36,500 |
| 36,677 | 36,666 | 36,655 |
| 37,070 | 37,020 | 36,970 |
| 37,497 | 37,424 | 37,343 |
| 38,995 | 38,788 | 38,583 |
|  |  |  |
| 19.8 | 19.7 | 19.5 |
| 8.9 | 8.3 | 7.5 |
| 16.0 | 14.6 | 13.3 |

June
July

| 10.8 | 10.5 | 10.3 |
| ---: | ---: | ---: |
| 5.7 | 5.5 | 5.0 |

$\begin{array}{rrr}5.8 & 5.5 & 5.1 \\ 12.9 & 11.6 & 10.3\end{array}$

| RPD |  |  |
| :---: | ---: | ---: |
| Alt. A | Alt. B | Alt. C |
| 34,246 | 34,246 | 34,246 |
| 34,763 | 34,751 | 34,740 |
| 35,064 | 35,015 | 34,965 |
| 35,655 | 35,581 | 35,500 |
| 36,567 | 36,363 | 36,161 |
|  |  |  |
| 19.9 | 19.7 | 19.6 |
| 10.3 | 9.5 | 8.7 |
| 10.2 | 8.8 | 7.4 |


| 19.9 | 19.7 | 19.6 |
| ---: | ---: | ---: |
| 10.3 | 9.5 | 8.7 |
| 10.2 | 8.8 | 7.4 |
|  |  |  |
| 18.1 | 17.7 | 17.3 |
| 10.4 | 9.1 | 7.8 |


| $\mathrm{M}_{3}$ |  |  |
| :--- | :--- | :--- |
| Alt. A | Alt. B |  |
| 925.0 | 925.0 | 925.0 |
| 931.0 | 930.8 | 930.6 |
| 935.9 | 935.1 | 934.3 |
| 946.0 | 943.5 | 941.2 |
| 963.1 | 956.7 | 951.0 |


| 6.6 | 6.6 | 6.5 |
| :--- | :--- | :--- |
| 6.4 | 5.5 | 4.6 |
| 7.2 | 5.6 | 4.2 |


| 7.8 | 7.5 | 7.3 |
| :--- | :--- | :--- |
| 6.3 | 5.5 | 4.8 |

$\begin{array}{lll}10.4 & 9.1 & 7.8\end{array}$
(9) The staff expects that attainment of the alternative $C$ aggregates would require a further rise in the Federal funds rate between now and the next Comittee meeting to a consistent trading range around 12 per cent or a little above. Projected growth in nominal GNP for the second half of the year is now slightly slower than at the time of the last Committee meeting; but the growth rates for the third and fourth quarters--annual rate of 8,8 and 10 per cent, respectively--still suggest sizable increases in transactions demands for cash.
(10) A rise in the funds rate over the weeks ahead would be associated with further increases in interest rates generally. The increases could be quite marked as expectations that market interest rates had peaked--already coming into question--turn into expectations of further rise. If the funds rate rose to the 12 per cent area, the 3 -month bill rate might well fluctuate in a $8 \frac{1}{2}-9 \frac{1}{2}$ per cent range over the weeks ahead, the 3 -month commercial paper rate would rise above its earlier 11 per cent peak, and the prime loan rate would again be under substantial upward pressure. However, increases in short-term market rates, particularly in the Treasury bill area, could be tempered if foreign official demand for U.S. Treasury securities were to strengthen. Rising short rates would probably be comunicated to longer-term markets also, given sizable corporate and municipal security offerings in prospect. The increase in bond yields, at least on the highest quality issues, would be moderated, however, to the extent that evidence of monetary restraint tends to make investors somewhat less pessimistic about the outlook for inflation.
(11) The rise in interest rates expected under alternative $C$ would further constrain inflows of consumer-type time and savings
deposits to banks and thrift institutions, given current Regulation $Q$ ceilings. As a result, growth in $M_{2}$ and $M_{3}$ for the second half of 1974 would be reduced to about $5 \frac{3}{4}$ and $4 \frac{3}{2}$ per cent, at annual rates, respectively. Banks would be forced to raise interest rates offered for $C D$ 's and Euro-dollars. However, we would expect considerable moderation in the amount of net new funds raised through these instruments; bank loan growth would probably be cut back by tighter lending terms, and banks would probably become increasingly wary of adding to CD holdings at ever higher interest costs. Marginal financial and business firms might find it difficult to refinance maturing debts as banks and other lenders become more selective. Financial strains would increase generally, and the odds on failure of some of the more vulnexable firms would rise.
(12) Alternative $B$ encompasses a $5 \frac{3}{4}$ per cent growth rate for $M_{1}$-and growth rates of $6 \frac{3}{4}$ and $5 \frac{3}{2}$ per cent for $M_{2}$ and $M_{3}$ respectively--in the second half of 1974 . These aggregate growth rates appear to be consistent with a Federal funds rate around $11 \frac{1}{2}-11 \frac{3}{4}$ per cent, close to the center of the range for this alternative. Thus, upward interest rate pressure under this alternative would be considerably less than under alternative C. At this writing, interest rates generally appear to be in process of adjusting to Federal funds trading at rates somewhat above 11六 per cent. This process may be completed by, or shortly after, the forthcoming Committee meeting; and little further, if any, upward rate movement is likely to develop subsequently if the funds rate remains around the center of alternative $B$ range.
(13) Assuming the prevailing money market conditions, $M_{1}$ growth in the June-July period is likely to be in a $6-8$ per cent annual rate range. On the basis of partial data for the early part of June,
we would expect June growth to be on the order of 8 per cent at an annual rate. Given the over-all interest rate increase of the past few months, and the end of the tax refund period, growth in $M_{1}$ is expected to slow in July and subsequent months of the third quarter. For the third quarter as a whole, $M_{1}$ growth is indicated to be $5 \frac{1}{4}$ per cent at prevailing money market conditions--though rising to $6 \frac{3}{4}$ per cent in the four th quarter when nominal GNP growth is projected to expand somewhat more rapidly.
(14) The substantial injection of nonborrowed reserves that seems necessary to attain the aggregates of alternative A would probably lead to an easing of money market conditions. A downward movement in the funds rate--and especially a drop to the $10 \frac{3}{4}$ per cent mid-point of the range shown for this alternative--would be accompanied by a sharp decline in market interest rates as investors came to believe that monetary policy had made a major turn. The decline would be especially large in shortterm markets. In the Treasury bill market, the 3 -month bill rate could drop to below 7 per cent in view of the limited market supply at the moment and the sizable volume of maturing mid-June tax bills. Given the basic strength of credit demands, however, the immediate decline in interest rates would probably be followed by a gradual upward readjustment if the Federal funds rate were to hold around $10 \frac{3}{4}$ per cent.

## Proposed directive language

(15) Presented below are three alternative formulations for the operational paragraph of the directive, which are intended to correspond to the similarly lettered policy alternatives discussed in the preceding section. As will be noted, alternative $A$ refers to growth rates in the monetary aggregates prevailing over recent months. Growth in $M_{1}$ was at an annual rate of about 7 per cent in the first quarter, and including an estimate of 8.2 per cent for June, it is about 7 per cent for the second quarter as well. The comparable rates for $M_{2}$ are about 10 per cent for the first quarter and about 8 per cent for the second quarter.

## Alternative A

To implement this policy, while taking account of developments in domestic and international financial markets, the Committee seeks to maintain-abouk-Ehe-prevailizag-restrietive ACHIEVE BANK RESERVE AND money market conditions;-previded-that CONSISTENT WITH GROWTH IN the monetary aggregates AT ABOUT THE RATES PREVAILING OVER RECENT MONTHS appeay-Ee-be-grewiag-aE rates-within-Ehe-

## Alternative $B$

To implement this policy, while taking account of developments in domestic and international financial markets, the Committee seeks to maintain-about-the-prevaiting-restrietive ACHIEVE BANK RESERVE AND money market conditions;-provided-that the THAT WOULD MODERATE GROWTH IN monetary aggregates OVER THE MONTHS AHEAD appear-te-be-gyewing-at-rates-within-the-speezfied yanges-af-tełeranee.

## Alternative C

To implement this policy, while taking account of developments in domestic and international financial markets, the Committee seeks to maintain-about-the-prevaíaing-restrietive ACIIEVE BANK RESERVE AND money market conditions;-previded-that tke THAT WOULD SLOW APPRECIABLY THE GROWTH IN monetary aggregates OVER THE MONTHS AHEAD appear-EO-be-grewing-at-rates-within-Ehe speeifixed-ranges-of-tełeranee.
(16) In the event that the Committee again wishes to couch the operational paragraph of the directive in terms of money market conditions, the specifications of alternative $B$ might be associated with the language used in the directive adopted at the last meeting-namely, that "...the Committee seeks to maintain about the prevailing restrictive money market conditions, provided that the monetary aggregates appear to be growing at rates within the specified ranges of tolerance."

## RESERVES AVAILABLE TO SUPPORT PRIVATE NONBANK DEPOSITS



## MONETARY AGGREGATES

NARROW MONEY SUPPLY M1


## MONETARY AGGREGATES

## ADJUSTED CREDIT PROXY <br> 

TOTAL RESERVES


[^1]
## CHART 4

## MONEY MARKET CONDITIONS AND INTEREST RATES


(ACTUAL AND CURRENT PRDJECTIONSI


NOTF: DATA SHCWN IN PARENTHESFS ARE CURRENT PROJECTIONS. AT THE FOMC MFFTING OF MAY 21, 1974 the committee agreed on a rpd range of 13 ti 20 PERCENT fir the may-june perind.

|  | PERIOD i | $\begin{aligned} & \text { MONEY } \\ & \text { NARROW } \\ & \text { (M1) } \end{aligned}$ | $\begin{aligned} & \text { SUPPEY } \\ & \text { BROAD } \\ & \text { (M2) } \end{aligned}$ | $1$ | ADJUSTEO CRENIT PREXY | $\begin{aligned} & 11 \\ & 11 \\ & 11 \end{aligned}$ | $\begin{gathered} \text { U.S. } \\ \text { GOVT. } \\ \text { DEPOSITS } \end{gathered}$ | 1 | TIMF TCTAL |  | $\begin{aligned} & \text { SAVINGS } \\ & \text { CTHER } \\ & \text { THAN CD S } \end{aligned}$ | DFP | SITS CD S | $1$ | NONDFPOS IT SOURCES OF FUNDS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | (1) | (2) | 1 | (3) | 11 | (4) | I | (5) | 1 | (6) | 1 | (7) | I | (8) |
|  | 1 |  |  | 1 |  | II |  | I |  | I |  | 1 |  | 1 |  |
| MONTHLY | Levels -\$RILLit́ns |  | 1 | 1 |  | 11 |  | - |  | I |  | 1 |  | 1 |  |
| ------ | ------------1 |  | , | 1 |  | 11 |  | 1 |  | 1 |  | 1 |  | 1 |  |
|  | 1974-MAR. \| | 276.2 1 | 1586.2 | 1 | 459.1 | II | 3.7 | 1 | 377.7 | 1 | 310.0 | I | 67.7 | 1 | 8.6 |
|  | APP. \| | 278.1 | 1 590.2 | 1 | 471.2 | II | 4.5 | 1 | 387.4 | \| | 312.1 | 1 | 75.4 | 1 | 9.6 |
|  | MAY 1 | 270.3 1 | 1 592.9 | 1 | 477.8 | 11 | 3.8 | 1 | 394.8 | 1 | 313.6 | 1 | 81.2 | 1 |  |
|  | $J U^{N} .$ | 1281.21 | 1 (597.7) | ! | $(482.01$ | 11 | $(3.51$ | 1 | (309.1) | 1 | (316.5) | 1 | 182.71 | 1 | $(10.5)$ |
|  | - |  | - 1597.7) | 1 |  | 11 |  | 1 |  | 1 |  | 1 |  | 1 |  |
| PERCENT | ANNUAL GROWTH I |  | I | 1 |  | 11 |  | 1 |  | 1 |  | 1 |  | 1 |  |
|  | ----------- \| |  | , | 1 |  | II |  | 1 |  | 1 |  | 1 |  | 1 |  |
|  | OUARTFRLY \| |  |  | 1 |  | 11 |  | 1 |  | 1 |  | 1 |  | 1 |  |
|  | $1$ |  | 11.0 | 1 |  | 11 |  | 1 |  | 1 |  | 1 |  | 1 |  |
|  | 1973--4TH QTR. I | 8.9 | 11.0 | 1 | 3.3 | 11 |  | 1 | 6.1 | 1 | 12.6 | 1 |  | 1 |  |
|  | 1 |  | - | 1 |  | 11 |  | 1 |  | 1 |  | 1 |  | 1 |  |
|  | 1974--1ST QTR. \| | 7.1 | 19.9 | 1 | 8.5 | 11 |  | 1 | 15.6 | 1 | 12.5 | 1 |  | 1 |  |
|  | 2NO GTR. I | 17.21 | ( 7.81 | 1 | (20.0) | 11 |  | 1 | (22.7) | 1 | 18.41 | I |  | 1 |  |
|  | I |  |  | 1 |  | 11 |  | 1 |  | 1 |  | I |  | 1 |  |
|  | MONTHLY \| |  | , | 1 |  | 11 |  | 1 |  | 1 |  | 1 |  | 1 |  |
|  | ------ \| |  |  | 1 |  | 11 |  | 1 |  | 1 |  | 1 |  | 1 |  |
|  | 1974--MAR. \| | 11.0 | 18.9 | 1 | 11.3 | II |  | 1 | 9.3 | 1 | 7.0 | 1 |  | 1 |  |
|  | APR. | 8.3 \| | 8.2 | 1 | 31.6 | 11 |  | 1 | 30.8 | 1 | 8.1 | 1 |  | 1 |  |
|  | MAY | 5.2 1 | 5.5 | 1 | 16.8 | 11 |  | 1 | 22.9 | 1 | 5.8 | I |  | 1 |  |
|  | JUN. 1 | (8.2) | 19.71 | 1 | (10.5) | 11 |  | 1 | (13.1) | 1 | (11.1) | 1 |  | 1 |  |
|  | I |  |  | 1 |  | 11 |  | 1 |  | 1 |  | 1 |  | 1 |  |
|  | MAY-JUN. I | (6.7) | ( 7.6 ) | 1 | (13.8) | 11 |  | 1 | (18.1) | 1 | (8.5) | 1 |  | 1 |  |
|  | 1 |  |  | 1 |  | 11 |  | , |  | 1 |  | 1 |  | 1 |  |
| WFEKLY | LEVELS-\$PILLIONS | 1 | , | 1 |  | 11 |  | 1 |  | 1 |  | 1 |  | 1 |  |
|  | -------------- \| | 1 | I | 1 |  | II |  | 1 |  | 1 |  | 1 |  | I |  |
|  | 1 |  | , | 1 |  | 11 |  | 1 |  | 1 |  | 1 |  | 1 |  |
|  | APR - 3 1 | 277.5 | 588.1 | 1 | 466.3 | 11 | 4.8 | 1 | 382.0 | 1 | 310.5 | 1 | 71.4 | 1 | 9.5 |
|  | 10 1 | 277.7 \| | 1589.3 | 1 | 468.4 | 11 | 5.0 | 1 | 385.4 | 1 | 311.5 | 1 | 73.9 | 1 | 9.3 |
|  | 17 I | 280.1 \| | 592.3 | 1 | 472.9 | 11 | 5.0 | 1 | 387.0 | 1 | 312.2 | 1 | 74.8 | 1 | 9.4 |
|  | 24 I | 277.8 \| | 1 590.2 | 1 | 471.8 | 11 | 4.0 | 1 | 389.2 | 1 | 312.3 | 1 | 76.9 | I | 9.7 |
|  | 1 |  | - 590.2 | 1 |  | 11 |  | 1 |  | 1 |  | 1 |  | 1 |  |
|  | mar 11 | 276.8 \| | 1 589.6 | 1 | 473.8 | 11 | 4.4 | 1 | 390.8 | 1 | 312.8 | 1 | 78.0 | 1 | 10.2 |
|  | 81 | 278.6 \| | 1591.3 | 1 | 476.4 | 11 | 5.3 | 1 | 392.4 | 1 | 312.7 | 1 | 79.7 | 1 | 10.4 |
|  | 15 \| | 279.5 \| | 1 593.1 | 1 | 476.6 | 11 | 3.3 | 1 | 394.2 | 1 | 313.6 | 1 | 80.6 | 1 | 10.8 |
|  | 221 | 280.6 | 1 593.8 | I | 478.5 | 11 | 3.2 | 1 | 395.2 | I | 313.3 | I | 82.0 | 1 | 11.1 |
|  | 201 | 778.1 \| | 1 592.7 | 1 | 478.5 | 11 | 3.0 | 1 | 397.1 | 1 | 314.6 | 1 | 82.5 | I | 11.0 |
|  | i |  | , | 1 |  | II |  | 1 |  | 1 |  | 1 |  | 1 |  |
|  | JUN. 5 P I | 281.0 | 1 596.5 | 1 | 482.0 | II | 3.7 | 1 | 397.7 | 1 | 315.6 | 1 | 82.2 | I | 10.6 |
|  | 12 PFI | 281.1 \| | 1 597.1 | 1 | 482.4 | 11 | 4.9 | 1 | 398.3 | 1 | 316.0 | 1 | 82.3 | 1 | 10.2 |
|  | 1 |  | 1 | 1 |  | II |  | 1 |  | 1 |  | 1 |  | 1 |  |

NOTE: DATA SHOWN IN PARENTHESES ARE CURRENT PROJECTIONS
P - PRELIMINARY
PE - PARTIALLY ESTIMATED

TABLE 3
RESERVE EFFECTS OF
OPEN MARKET OPERATIONS AND OTHER RESERUE FACTORS
(Millions of dollars, not seasonally adjusted)

|  | Open Market Operations $1 /$ |  |  |  |  | Daily Average Reserve Effect 2/ |  |  | A in reserve categories |  | $\begin{aligned} & \Delta \text { Target } \\ & \text { available } \\ & \text { reserves } 5 / \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Rills } \\ & \text { \& Accept. } \end{aligned}$ | Coupon Issues | Agency Issues | $\text { Net } 3 /$ | Total | $\begin{array}{\|c} \hline \text { Open Market } \\ \text { Operations } \\ \hline \end{array}$ | $\Delta$ Member Bank Borrowing | $\begin{aligned} & \text { Other } 4 / \\ & \text { Factor } 8 \end{aligned}$ | req. res. against U.S.G. and interb. | availab1e res. 5/ $(6)+(7)+(8)-(9)$ |  |
|  | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| Monthly |  |  |  |  |  |  |  |  |  |  |  |
| 1973 -- Nov. | -1,008 | 533 | 71 | -902 | -1,307 | 394 | -68 | -646 | -190 | -130 | 860 |
| Dec. | 1,862 | 226 | 128 | -831 | 1,386 | 1,336 | -101 | -759 | -70 | 546 | 475 |
| 1974 -- Jan. | -397 | 179 | -10 | -100 | -328 | 1,031 | -254 | 698 | 773 | 702 | 895 |
| Feb. | -32 | 30 | 74 | -- | 71 | 9 | 143 | -1,505 | -356 | -997 | -875 |
| March | -64 | 190 | 122 | 1,531 | 1,780 | -74 | 166 | -358 | -323 | 57 | -30 |
| April | 790 | 172 | 312 | -485 | 789 | 922 | 362 | -338 | 173 | 773 | 315 |
| May June | 653 | 207 | 185 | 1,111 | 2,155 | 1,970 | 865 | -2,272p | 209p | 354p | -130 |
| July |  |  |  |  |  |  |  |  |  |  |  |
| Weekly |  |  |  |  |  |  |  |  |  |  |  |
| 1974-- Apr . 1 | -- | -- | -- | 251 | 251 | 494 | -210 | 385 | 532 | 137 |  |
|  | -5 | -- | -- | -- | -5 | -785 | -309 | 653 | -174 | -267 |  |
|  | 206 | -- | -- | 532 | 738 | 963 | 622 | -331 | 268 | 986 |  |
|  | -33 | 172 | 119 | 142 | 399 | 156 | 123 | -480 | -357 | 156 |  |
| May 1 | 526 | -- | 193 | 220 | 939 | 1,103 | 218 | -531 | 80 | 710 |  |
| 8 | 267 | - | -- | 494 | 761 | 483 | -540 | -364 | -24 | -397 |  |
| 15 | 176 | -- | - | 446 | 622 | 454 | 360 | -592 | 497 | -275 |  |
| 22 | 127 | - | 201 | -2,609 | -2,281 | 86 | 1,111 | -1,258 | 146 | -207 |  |
| 29 | 80 | -- | -15 | 3,808 | 3,873 | -692 | 517 | -136p | -462p | 151p |  |
| June 5 | 42 | 207 | -- | -6,093 | -5,844 | -23 | -551 | 580 p | -189p | 1950 |  |
| 12 | -370 | -- | -72 | 4,068 | 3,626 | -1,892 | -325 | 1,740p | $-167 p$ | -310p |  |
| 19 26 |  |  |  |  |  |  |  |  |  |  |  |
| 26 |  |  |  |  |  |  |  |  |  |  |  |

[^2]2/ Represents change in daily average level for preceding period
3) Includes matched sale-purchase transactions as well as RP's

4/ Sum of changes in vault cash, currency in circulation, Treasury operations, F.R. float, gold and foreign accounts, and other F.R. accounts.
5/ Reserves to support private nonbank deposits. Target change for May and June reflects the target adopted at the May 21 , 1974 Fomic meeting Target change for previous months reflects the bluebook patterns that are consistent with target ranges that were adopted during the month.

TABLE 4
SECURITY DEALER POSITIONS AND BANK POSITIONS
Millions of dollars

| Period | U.S. GOVL. Security Dealer Positions |  | Dealer Positions |  | Member Bank Reserve Positions |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Corporate Bonds | Municipal Bonds | Excess** Reserves | Borrowing at FRB** |  | Basic Reserve Deficit |  |
|  | Bills | Coupon Issues |  |  |  | Total | Seasonal | 8 New York | 38 Others |
|  | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| 1973 -- $\begin{gathered}\text { High } \\ \text { Low }\end{gathered}$ | 3,796 897 | 1,299 -301 | 197 | 384 36 | 631 -240 | 2,561 | 163 3 | $-5,243$ $-1,831$ | $\begin{array}{r} -10,661 \\ -\quad 4,048 \end{array}$ |
| 1974 -- High | 3,238 | 2,203 | 253 | 371 | 394 | 3,605 | 136 | -6,189 | -12,843 |
| Low | 94 | -39 | 7 | 43 | -83 | 776 | 13 | -2,447 | - 8,711 |
| 1973 -- May | 1,894 | 421 | 66 | 151 | 161 | 1,843 | 30 | -3,019 | - 5,872 |
| Juhe | 2,281 | 562 | 33 | 120 | 234 | 1,851 | 75 | -3,507 | - 6,443 |
| July | 1,425 | 265 | 24 | 139 | 285 | 1,953 | 155 | -2,460 | - 6,106 |
| Aug. | 1,690 | 39 | 0 | 70 | 177 | 2,165 | 163 | -2,689 | - 4,940 |
| Sept. | 2,745 | 395 | 6 | 80 | 216 | 1,852 | 148 | -3,173 | - 5,355 |
| Oct. | 2,565 | 484 | 44 | 226 | 227 | 1,476 | 126 | -3,814 | - 6,090 |
| Nov. | 2,804 | 793 | 90 | 148 | 239 | 1,393 | 84 | -4,469 | - 8,186 |
| Dec. | 3,441 | 973 | 105 | 276 | 307 | 1,298 | 41 | -4,682 | - 9,793 |
| 1974 -- Jan. | 3,102 | 540 | 114 | 254 | 162 | 1,051 | 18 | -4,753 | -10,893 |
| Feb. | 2,436 | 1,619 | 120 | 263 | 184 | 1,162 | 17 | -5,262 | -10,769 |
| Mar. | 1,986 | 583 | 68 | 239 | 134 | 1,314 | 32 | -5,030 | -11,058 |
| Apr. | 1,435 | 99 | 39 | 78 | 182 | 1,736 | 40 | -3,952 | -11,603 |
| May | : 408 | *85 | 142 | 83 | 154p | 2,589p | 102p | -3,176p | - 9,159p |
| 1974 -- Apr 3 | 2,264 | 263 | 86 | 97 | 226 | 1,503 | 48 | -4,032 | -11,062 |
| 10 | 2,120 | 212 | 16 | 46 | 62 | 1,194 | 41 | -5,375 | -11,470 |
| 17 | 1,754 | 80 | 30 | 43 | 329 | 1,816 | 47 | -4,739 | -12,826 |
| 24 | 472 | -39 | 24 | 124 | 139 | 1,939 | 54 | -2,672 | -11,648 |
| May 1 | 810 | -15 | 7 | 153 | 177 | 2,157 | 74 | -2,967 | - 9,712 |
| 8 | 616 | -17 | 37 | 129 | 213 | 1,617 | 82 | -3,423 | - 9,102 |
| 15 | * 305 | *384 | 40 | 96 | 176 | 1,977 | 94 | -4,002 | - 9,091 |
| 22 | * 94 | * 8 | 117 | 131 | 97p | 3,088p | 112p | -2,858 | - 9,329 |
| 29 | * 333 | * 19 | 136 | 211 | 108p | 3,605p | 114p | -2,447 | - 8,711 |
| June 5 | $\begin{aligned} & * 1,031 \\ & * 1,110 \end{aligned}$ | * 12 | 50 $150 p$ | 98 $95 p$ | $\begin{aligned} & 214 p \\ & 133 p \end{aligned}$ | $3,054 \mathrm{p}$ 2,729p | 131p $136 p$ | -3,584p $-5,040 \mathrm{p}$ | $-9,340 \mathrm{p}$ $-10,418 \mathrm{p}$ |
| 19 |  |  |  |  |  |  |  |  | -10,418p |
| 26 |  |  |  |  |  |  |  |  |  |

NoTE: Government security dealar trading positions are on a commitment basis. Trading positions, which exclude Treasury bills financed by repurchas agreements maturing in 16 days or more, are indicators of dealer holdings available for sale over the near-term. other security dealer positions are debt issues still in syndicate, excluding trading positions. The basic reserve deficit is excess reserves less borrowing at Federal Reserve less net Federal funds purchases. Weekly data are daily averages for statement weeks, except for corporate and municipal issues in syndicate which are Friday figures.

* STRICTLY GONFIDENTIAL
** Monthly averages for rxcess reserves and borrowings are weighted averages of atatement week figures.


NOTES: Weekly data for columns 1 to 4 are statement week averages of daily data. Columns 5 and 6 are one-day Wednesday quotes. For columns 7 , 8 and 10 the statement week. Column 11 gives FNMA auction data for the Monday preceding the end of the statement week. The FNMA auction yield is the average yıeld in the bi-weekly auction for short-term forward comnitments for Government underwritten mortgages.


NOTE: Reserve Requirements on Eurodollar borrowings are included begining october 16, 1969, and requirements on bank-related commercial paper are included beginning October 1, 1970.
p-Preliminary.

|  | RESERVES |  |  | MONEY Stock measures |  |  |  | bank crimit measures |  | OTHER |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Period | 1otal | Nonborrowed | Available <br> to Support Pvt. Deposita | Total | Pvt ${ }_{\text {f }}$ Dep. | $\mathrm{M}_{2}$ | $\mathrm{M}_{3}$ | Ad justed Credit Proxy | $\begin{gathered} \text { Total } \\ \text { Loans \& } \\ \text { Investments } \end{gathered}$ | Total Time | Time Other than CD's | Thrift Institution Deposits | CD's | NonDeposits Funds | U.S. <br> Gov't <br> Demand |
| Period | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) |
| annually: |  |  |  | (Series revised) |  |  |  |  |  | (Series revised) |  |  |  |  |  |
| Dec. 1970 | 29,193 | 28,861 | 27,099 | 221.2 | 172.2 | 425.2 | 642.7 | 332.9 | 438.5 | 229.2 | 203.9 | 217.5 | 25.3 | 11.6 | 6.5 |
| Dec. 1971 | 31,299 | 31,173 | 29,965 | 235.2 | 182.6 | 473.0 | 727.9 | 364.3 | 487.6 | 270.9 | 237.9 | 254.8 | 33.0 | 4.0 | 6.1 |
| Dec. 1972 | 31,410 | 30,360 | 29,053 | 255.7 | 198.7 | 525.5 | 822.8 | 406.4 | 559.0 | 313.3 | 269.9 | 297.2 | 43.4 | 4.4 | 6.1 |
| MONTHLY: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 32.199 | 31,037 | 29,439 | 256.7 | 199.6 | 529.6 | 830.2 | 409.7 | 567.3 | 317.6 | 272.9 | 300.6 | 44.7 | 5.0 | 6.7 |
| Feb.Mar. | 31,634 | 30.040 | 29,368 | 257.9 | 200.4 | 532.4 | 835.8 | 413.5 | 578.5 | 323.6 | 274.5 | 303.5 | 49.1 | 4.5 | 6.1 |
|  | 31,910 | 30,085 | 29,621 | 258.1 | 200.1 | 534.7 | 940.4 | 421.2 | 586.8 | 331.2 | 276.6 | 305.7 | 54.6 | 4.9 | 7.6 |
| Apr. | 32,300 | 30,589 | 29,867 | 259.4 | 200.8 | 538.4 | 846.4 | 426.6 | 593.2 | 337.4 | 278.9 | 308.0 | 58.4 | 5.1 | 7.1 |
| MayJune | 32,445 | 30,602 | 30,114 | 262.4 | 203.4 | 543.7 | 854.1 | 430.5 | 601.4 | 342.7 | 281.4 | 310.4 | 61.3 | 5.4 | 5.2 |
|  | 32,459 | 30,608 | 30,548 | 265.5 | 206.2 | 549.5 | 862.6 | 434.5 | 605.5 | 345.9 | 283.9 | 313.1 | 62.0 | 5.6 | 5.3 |
| July | 33,576 | 31,622 | 31,358 | 266.4 | 206.9 | 552.1 | 867.1 | 437.6 | 612.8 | 349.6 | 285.7 | 315.0 | 63.9 | 6.5 | 3.9 |
| Aug.Sept. | 33,906 | 31,741 | 32.038 | 266.3 | 206.4 | 555.1 | 870.7 | 443.8 | 622.1 | 355.1 | 288.8 | 315.6 | 66.3 | 7.1 | 4.8 |
|  | 34,173 | 32,321 | 32,394 | 265.5 | 205.3 | 556.8 | 873.5 | 445.9 | 624.8 | 358.0 | 291.4 | 316.7 | 66.7 | 7.3 | 5.0 |
|  | 34,942 | 33,466 | 32,845 | 266.6 | 206.1 | 561.9 | 880.3 | 446.5 | 628.8 | 359.1 | 295.3 | 318.5 | 63.8 | 6.9 | 6.0 |
| Oct. Nov. | 34,857 | 33,463 | 32,714 | 269.2 | 208.2 | 567.3 | 887.7 | 447.5 | 632.7 | 360.1 | 298.1 | 320.4 | 62.0 | 7.1 | 5.8 |
| Dec. | 35,105 | 33,807 | 32,912 | 271.4 | 209.7 | 572.1 | 894.8 | 449.6 | 634.6 | 363.5 | 300.6 | 322.7 | 62.8 | 7.4 | 4.9 |
| 1974--Jan, | 35,850 | 34,799 | 32,799 | 270.8 | 208.9 | 575.4 | 900.4 | 454.3 | 642.4 | 370.1 | 304.6 | 325.0 | 65.5 | 7.5 | 6.2 |
| Feb. | 35,108 | 33,916 | 32,791 | 273.7 | 211.1 | 581.9 | 909.0 | 454.8 | 650.7 | 374.8 | 308.2 | 327.1 | 66.6 | 7.7 | 3.0 |
| Mar. April | 34,949 | 33,634 | 33,117 | 276.2 | 212.9 | 586.2 | 915.8 | 459.1 | 659.8 | 377.7 | 310.0 | 329.6 | 67.7 | 8.6 | 3.7 |
|  | 35,902 | 34,166 | 33,660 | 278.1 | 214.1 | 590.2 | 921.6 | 471.2 | 668.6 | 387.4 | 312.1 | 331.4 | 75.4 | 9.6 | 4.5 |
| May | 36,500 | 33,910 | 34,246 | 279.3 | 214.8 | 592.9 | 925.0 | 477.8 | 674.3 | 394.8 | 313.6 | 332.1 | 81.2 | 10.7 | 3.8 |
|  |  |  |  | 277.5 | 214.1 |  | -- | 466.3 | -- | 382.0 | 310.5 | -- | 71.5 |  |  |
| $\frac{\text { WEWRLY: }}{1974-\operatorname{Apr} i 1}$ | 35,040 | 33,846 | 33,117 | 271.7 | 213.6 | 589.3 | -- | 468.4 | -- | 385.4 | 311.5 | -- | 73.9 | 9.3 | 4.8 5.0 |
|  | 36,161 | 34,345 | 33,794 | 280.1 | 216.0 | 592.3 | -- | 472.9 | -- | 387.0 | 312.2 | -- | 74.8 | 9.4 | 5.0 |
|  | 36,003 | 34,064 | 33,722 | 277.8 | 213.9 | 590.2 | -- | 471.8 | -- | 389.2 | 312.3 | -- | 76.9 | 9.7 | 4.0 |
| May $\begin{array}{r} \\ \\ \\ \\ \\ \\ \\ \\ \\ 2\end{array}$ | 36,742 | 34,585 | 34,277 | 276.8 | 21.3 .0 | 589.6 | -- | 473.8 | -- | 390.8 | 312.8 | -- | 78.0 | 10.2 | 4. $\%$ |
|  | 36,385 | 34.768 | 34,251 | 278.6 | 214.1 | 591.3 | -- | 476.4 | -- | 392.4 | 312.7 | -- | 70.7 | 10.4 | 5.3 |
|  | 36,572 | 34,595 | 34,104 | 279.5 | 215.1 | 593.1 | -- | 476.6 | -- | 394.2 | 313.6 | -- | 80.6 | 10.8 | 3.3 |
|  | 36,628 | 33.540 | 34,218 | 280.6 | 216.0 | 593.8 | -- | 478.5 | -- | 395.2 | 313.3 | -- | 82.0 | 11.1 |  |
|  | 36,376 | 32,771 | 34,363 | 278.1 | 213.5 | 592.7 | -- | 478.5 | -- | 397.1 | 314.6 | -- | 82.5 | 11.0 | 3.0 |
| June 5p | 36,515 | 33,461 | 34,743 | 281.0 | 216.4 | 596.5 | -- | 482.0 | -- | 397.7 | 315.6 | -- | 82.2 | 10.6 | 3.7 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

$1 /$ Eatimated monthly average levels derived by averaging end of current month and end of previous month reported data.
Reaerve requirements on Eurodollar borrowings are included beginnithg October 16, 1969 , and requirements on bank-related coumarcial papar are inciuded beginning october 1 , 1970. Ad justed credit proxy Includes mainly total meniber bank deposits aubject to reserve requirements, bank-relatad comatarcial paper and Eurodallar borrowings of l. S. weekly data are not available for $\mathrm{m}_{3}$, total loans and investments and thrift institution deposits.

## Appendix Table III

Growth Rate in Money Supply
(Per cent change at an annual rate)

|  |  | $\mathrm{M}_{1}$ |  | $\mathrm{M}_{2}$ |  | $\mathrm{M}_{3}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | M | $Q$ | M | $Q$ | M | $Q$ |
| 1972 | I | 9.0 | 5.3 | 12.3 | 11.0 | 13.5 | 12.5 |
|  | II | 6.2 | 8.2 | 8.9 | 9.8 | 11.0 | 11.7 |
|  | III | 8.7 | 8.2 | 10.8 | 10.8 | 13.3 | 13.0 |
|  | IV | 9.9 | 8.4 | 10.6 | 10.2 | 12.0 | 12.2 |
| 1973 | I | 3.8 | 7.0 | 7.0 | 8.8 | 8.6 | 10.2 |
|  | II | 11.5 | 7.5 | 11.1 | 8.8 | 10.6 | 9.0 |
|  | III | -- | 5.6 | 5.3 | 7.9 | 5.1 | 7.5 |
|  | IV | 8.9 | 4.5 | 11.0 | 8.9 | 9.8 | 7.9 |
| 1974 | I | 7.1 | 6.7 | 9.9 | 9.9 | 9.4 | 9.4 |
|  | IIe | 7.2 | 8.6 | 7.8 | 8.5 | 6.6 | 7.7 |

[^3]
## Appendix Table IV

Growth Rates in Money Supply for Alternatives


## Appendix Table V <br> Money Supply Growth Rates




[^0]:    ${ }^{1}$ In some cases, original copies needed to be photocopied before being scanned into electronic format. All scanned images were deskewed (to remove the effects of printer- and scanner-introduced tilting) and lightly cleaned (to remove dark spots caused by staple holes, hole punches, and other blemishes caused after initial printing).
    ${ }^{2}$ A two-step process was used. An advanced optical character recognition computer program (OCR) first created electronic text from the document image. Where the OCR results were inconclusive, staff checked and corrected the text as necessary. Please note that the numbers and text in charts and tables were not reliably recognized by the OCR process and were not checked or corrected by staff.

[^1]:    * Breah $n$ seriec Actue efer cf Thta' Reserlec After Changes r Reserve Requirements

[^2]:    I/ Represents change in system's portfolio from end-of-period to end-of-period; includes redemptions in regular bill auctions.

[^3]:    $M=$ Annual rates of growth calculated from average levels in the final months of the quarters.
    $Q=$ Annual rates calculated from average levels in all three months of the quarters.
    $e=$ Estimated.

