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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) The adjusted money supply in October rose only slightly, thus falling considerably short of the 4-1/2 per cent rate of increase expected at the time of the last meeting of the Committee. While spread throughout the banking system, the greater portion of the weakness in the money supply appears to have been at reserve city banks and to be associated with the weakness in demands for short-term credit, perhaps in large part related to the auto strike. As shown in the table in paragraph (3), since mid-October the weekly data have, without exception, run below the path indicated in the last Blue Book; and in the week of November 4 the short-fall amounted to some \$1-1/2 billion.
- (2) Growth in the adjusted bank credit proxy in October fell even further below expectations than the money supply. Currently the proxy is estimated to have increased at only about a 1/2 of 1 per cent rate over the month, compared with a 7 per cent rate expected at the time of the Committee meeting. In addition to the weakness in private demand deposits, the increase in the proxy was held down by a slightly more rapid pace of runoff of non-deposit sources of funds than allowed for, a slower growth in time deposits than earlier anticipated, and a greater decline in U.S. Government deposits. The October rate of increase in time deposits is estimated at 22 per cent, compared with a projection of 26-1/2 per cent,

reflected some slowing in net inflows of both CD's and other time and savings deposits. Like the weakness in the money supply, this slowing was concentrated at reserve city banks.

(3) The following table shows recent developments in the money supply and the adjusted credit proxy.

Recent Paths of Key Monetary Aggregates (Seasonally adjusted, billions of dollars)

		Adjusted Credi	t Proxy	Money Sup	ply ²
197 0		Indicated at Last Meeting 1/	Actual Results	Indicated at Last Meeting 1/	Actual Results
Month					
September		324.5	324.5	210.8	210.7
October		326. 4	324.7	211.6	210.8
Week endi	ng				
October	14	324.4	323. 9	210.2	210.0
	21	325. 7	324.3	212.4	212. 1
	28	329.1	324.9	212.2	209.6
November	4	329. 1	325.5	211.4	210.0
	11	329.6	326.3	212.6	210.4
		% Annual Rates of	Change	% Annual Rates o	f Change
Third Qua (Sept. ov		1 7. 2 ine)	17.2	5.0	4. <u>8</u> 3/
October o		7.0	0.7	4.5	0.6

^{1/} Alternative A path of previous Blue Book.

^{2/} Estimated money supply levels and per cent annual rates of growth after correction for bias. Data on the published money supply, both target path and actuals, are shown in appendix table 1.

^{3/ 4.6} per cent annual rate for third quarter average over second quarter average.

- (4) In view of the shortfall in monetary growth rates in October, as well as in the fourth quarter, the Desk has encouraged more comfortable money market conditions than those generally prevailing around the time of the October 20 meeting. With the "even keel" constraint lessened after the auction date of the new note, Federal funds began to trade more frequently below 6 per cent and in the last day or two have been trading around the new 5-3/4 per cent discount rate. Net borrowed reserves over the statement weeks since the last meeting have fluctuated in a \$120 to \$290 million range while average member bank borrowings have remained quite stable around \$430 million.
- (5) Short-term interest rates have declined markedly since the Committee meeting, particularly in the Treasury bill market where the rate on 3-month issues has dropped about 50 basis points to around 5.45 per cent. The fall in bill rates was influenced by anticipation of a near-term cut in the discount rate and the commercial bank prime rate (both of which subsequently were reduced by 1/4 point), by reinvestment of the proceeds of the heavy recent volume of capital market offerings, and, also, by reduced demands for short-term credit partly as a result of the prolonged auto strike. These same influences have worked to reduce rates on private short-term market instruments as well, and most of these rates are about 25--50 basis points below their levels as of October 20. Bond markets have rallied in the last two weeks, bringing yields somewhat below those prevailing around the time of the last FOMC meeting.

- (6) On October 23, the Treasury announced a rights exchange for the \$7.7 billion of maturing 5 per cent notes, \$6.0 billion of which were publicly held. Holders of the maturing notes were given the option of an exchange into either a 3-1/2-year, 7-1/4 per cent note at par or a 5-3/4-year, reopened 7-1/2 per cent note priced to yield 7.39 per cent. The exchange was very successful with an attrition rate of only 11 per cent, or about \$650 million, of the public's holdings. These two new issues were most recently trading at premiums of 1-3/4--2 points. In conjunction with the October 30 announcement of the results of the rights exchange, the Treasury announced a \$2.0 billion cash financing in the form of an auction on November 5 of a 6-3/4 per cent, 18-month note, with 50 per cent tax and loan credit allowed for banks. The note auction was very successful, and an average issuing rate of 6.21 per cent resulted, a rate considerably below earlier market expectations.
- (7) The following table summarizes seasonally adjusted annual rates of change in major financial aggregates for selected periods:

	Past Year (Oct. over October)	First Half of 1970 (June over December)	Third Quarter (Sept. over June)	Most Recent Month (October over September)
Total Reserves	6.5	- 0.2	19.2	-3.8
Nonborrowed Reserves	9.4	1.9	24.4	-0.3
Money Supply, published	3.5	4.0	5.1	-0.6
Money Supply, adjusted	4.3	5.5	4.8	0.6
Large CD's (dollar amoun	t) = \$11.7	\$ 1.7	\$8.7	\$1.9
Other time and savings deposits	8.7	5,7	15,5	12.9
Savings account at nonbatherift institutions	nk 6.0	4.3	10.0	12.9
Member bank deposits and related sources of funds				
Total member bank deposi (Bank credit proxy)	ts 9.6	3.3	24.1	10,1
Proxy plus Euro-dollars other nondeposit source		3.5	17.2	0.7
Commercial bank credit (Month end)				
Total loans and investme	nts 6.6	2.5	17.0	0.8
L&I plus loans sold outright to affiliates and foreign branches	6,4	4.5	13.9	-1.7
Nonbank commercial paper		14.2	-17.7	32.3

NOTE: All items are averages of daily figures (with "other nondeposit sources" based on an average for the month of Wednesday data), except the commercial bank credit series, which are based on total outstanding on last Wednesday of month, and the nonbank commercial paper and thrift institutions series, which are end-of-month data. All additions to the total member bank deposit series are seasonally unadjusted numbers, since data have not been available for a long enough time to make seasonal adjustments.

^{1/} Actual dollar change over the period in billions.

Prospective developments

(8) The recent weakness in demand deposits, and also to a degree in time deposits, suggests that the fourth quarter target growth rate for the money supply of 5 per cent (and the anticipated attendant bank credit growth rate of 9 per cent) are not likely to be attained, even with money market conditions similar to the easier conditions most recently prevailing. The latter might be taken to include a Federal funds rate around the new 5-3/4 per cent discount rate and a net reserve position for banks in a +\$50 to -\$200 million range. these money market conditions, the staff's current projections of likely growth in money supply, bank credit, and total reserves are shown below. As may be seen the money supply over the quarter would be expected to grow at a 3 per cent annual rate, with growth expected to accelerate from the very low recent rates as economic activity picks up in connection with the ending of the auto strike. The adjusted bank credit proxy is expected to grow at only a 3-1/2 per cent annual rate for the quarter, partly as U.S. Government deposits show a substantial decline.

Selected Monetary Aggregates, Monthly (\$ billions, seasonally adjusted--7 annual rate change in parenthesis)

	Money	Supply		
	Published		Adj usted Bank	Total
	Basis	Adjusted	Credit Proxy	Reserves
September	206.2 (+1.2)	210.7 (1,1)	3 24. 5 (9. 7)	29.2 (27.5)
October	206.1	210.8 (+0.6)	324.7 (0.7)	29.4 (+3.8)1/
November	206,6 (+3,0)	211.3 (+3.0)	326. 2 (5. 5)	29.6 (9.5)
December	207.6 (+6.0)	212.3 (+5.5)	327.3 (4.0)	29.7 (8.5)
Fourth quarter (Dec. over Sept.)	$(2.5)^{\frac{2}{2}}$	$(3.0)^{\frac{2}{2}}$	(3.5)	$(5.0)^{\frac{1}{2}}$

^{1/} There was a break in the total reserve series effective October 1 as a result of the application of reserve requirements to bank-related commercial paper. The rates of change shown here were calculated excluding commercial paper reserves.

With these aggregates and money market conditions, the staff would expect the 3-month bill rate to be in a 5-1/4--5-3/4 per cent range. It is possible that the bill rate could rise in the last few weeks of the year as the result of an expected \$2 billion Treasury bill offering for new cash to be announced shortly, of usual seasonal pressures, and of some renewed short-term credit demands following settlement of the auto strike. A back-up in short-term rates, should it develop, would tend to limit, though perhaps not completely halt, further declines in long-term interest rates.

(9) In light of the staff's estimate of the outlook for monetary aggregates noted above for the fourth quarter the Committee may wish to consider a further easing in money market conditions in an effort to move back to its previously desired track. But since it seems likely that some of the recent deposit weakness may have been related to diminished short-term credit and cash working

^{2/ 2.5} per cent annual rate for fourth-quarter average over third-quarter average.

balance needs as a result of the auto strike, the Committee may also wish to consider settling for a somewhat slower aggregate growth in the fourth quarter than previously desired. This approach might then allow for a counterbalancing growth in the money stock at a rate above 5 per cent in the first quarter when the economy will be doing most of its catching up from strike effects. For example, the Committee may not wish to ease money market conditions, and other interest rates, as much as now seems likely to be required to attain a 5 per cent money stock growth in the fourth quarter, and then have to turn around and tighten money market conditions in the first quarter in order to keep money growth to 5 per cent at a time when transactions demands for cash will likely be accelerating. One alternative would be for the Committee to strive for, say, a 4 per cent money growth rate in the fourth quarter and a compensating 6 per cent rate in the first, thus maintaining the annual rate over the fourth and first quarters together at around 5 per cent.

(10) The following table summarizes relationships between money market conditions, typified for convenience by the Federal funds rate, and rates of increase in monetary aggregates thought at the moment to be consistent for the fourth quarter.

Federal funds rate $\frac{1}{2}$	Annual rates o	f increase Bank credit
(a) 5-3/4	3	3-1/2
(b) 5	4	4-1/2
(c) 3-1/2	5	6

^{1/} Between now and year-end.

Needless to say, these relationships are, at best, approximate, are no doubt subject to considerable error, and should be considered as midpoints of fairly wide ranges. But they are presented so that the Committee might have some basis for expressing its preferences with respect to trade-offs over the near-term between monetary aggregates and money market conditions.

(11) The choice to be made among the range of alternatives summarized in paragraph (10) would appear to depend to an important extent on the trend rate of growth that the Committee desires for money and bank credit over a longer period of time. As earlier noted, if the FOMC wished to remain on a 5 per cent growth trend for money stock, it might accept a slower rate in the fourth quarter and a more rapid rate in the first quarter in the interest of not unduly wrenching money and credit markets. If the FOMC's basic desired path, on the other hand, were to move up to a trend rate of growth that was about 6-7 per cent for money in the fourth and first quarters taken together, the Committee might then wish to be more aggressive with respect to reserve provision in the fourth quarter in order to effect a smooth adjustment to the more rapid money supply growth path. Two broad alternatives are discussed in the next two subsections: one (alternative A) calls for maintaining the target for money growth for the fourth and first quarters taken together at a 5 per cent annual rate; the other (alternative B) calls for a higher average rate of growth over that time span.

Policy alternative A. (12) If the Committee wishes ... stay on a 5 per cent growth path for the money supply, but is willing to

permit some shortfall in the fourth quarter which would be made up in the first quarter, it might consider the following language for the second paragraph of the directive:

"To implement this policy, the Committee seeks to promote some easing of conditions in credit markets and moderate growth in money and attendant bank credit expansion over the months ahead, WITH ALLOWANCE FOR TEMPORARY SHIFTS IN MONEY AND CREDIT DEMANDS RELATED TO THE AUTO STRIKE. System open market operations until the next meeting of the Committee shall be conducted with a view to maintaining bank reserves and money market conditions consistent with those objectives; taking-account-of-the forthcoming-Treasury-financings."

This alternative might be best achieved if the Federal funds rate were permitted to move progressively downward in a 5-3/4 - 5 per cent range over the weeks ahead in the interest of attaining the Committee's longer-run money supply and bank credit objectives. As noted earlier, our estimates would suggest that a 5 per cent funds rate may be required to achieve 4 per cent money growth over the fourth quarter. At such a funds rate, it would be expected that this money growth shortfall might be made up in the first quarter without any very substantial further alteration of money market conditions. But in view of uncertainties about the funds rate-deposit relationship and given the possibility of exaggerated market reactions, it may be prudent to work the funds rate down gradually between now and the next meeting while checking incoming data to determine whether expected relationships are in fact developing.

(13) The table below shows monthly patterns of monetary aggregates consistent with this policy alternative.

Selected Monetary Aggregates, Monthly (\$ billion, seasonally adjusted--% annual rates of change in parentheses)

	Adjusted Money Supply	Adjusted Bank Gredit Proxy	Total Reserves
September, 1970	210.7	324.5	29. 2
	(1.1)	(9.7)	(27. 5)
October	210.9	324.7	29.4
	(0.6)	(0.7)	(-3.8)
November	211.4	326.3	29.6
	(3.0)	(6.0)	(11.5)
December, 1970	212.8	328.1	29.8
	(8.0)	(6.5)	(10.5)
March, 1971	216.1	334.1	30.3
Fourth quarter (Dec. over Sept.)	(4.0)	(4.5)	(6.0)
First quarter (March over Dec.)	(6.0)	(7.5)	(7.5)

⁽¹⁴⁾ A weekly pattern of monetary aggregates consistent with a 4 per cent money growth rate in the fourth quarter is shown below:

Monetary Aggregates Weekly (\$ billion, seas. adj.)

	Money Supply	Bank Credit	Total Reserves
November 11	210.4	326.3	29.4
18	211.8	326.3	29.6
25	211.8	326.5	29.8
December 2	212.3	326.2	29.7
9	212.2	327.8	29.8
16	212.5	327.6	29.7

If it proved necessary to push the Federal funds rate to around the low end of a 5 - 5-3/4 per cent range over the next few weeks, the 3-month Treasury bill rate would be likely to move into a lower range than the 5-1/4 - 5-3/4 per cent specified in paragraph (8). It might well drop to 5 per cent, or below, partly on expectations that the discount rate would soon be reduced again. And longer-term interest rates would tend to decline more rapidly than otherwise as banks continued to acquire securities even as loan demands picked up.

(15) It is most difficult to specify the net reserve position of banks likely to be consistent with a Federal funds rate in the 5 -5-3/4 per cent range, particularly a rate around the bottom end of the range. Member bank borrowings would likely average in a \$300-\$400 million range (with the lower end of the range respesenting largely necessitous long-term borrowing from the window by two banks). But it is very unclear as to how banks' demands for excess reserves are likely to change as the Fed funds rate drops further. One would expect that banks would want to hold somewhat more excess reserves as the Fed funds rate declined, but at a rate still as high as 5 per cent the level of excess reserves desired over time may be only \$50 - \$100 million above recent experience. This would mean that over a period of several weeks sizable net free reserves are not likely to be prevalent. But, with required reserves in a given week fixed by the lagged reserve scheme, the banking system as a whole (with borrowings at minimal levels) would have no way in any particular statement week to dispose of excess reserves created when open market operations supply honborrowed reserves in excess of current required reserves in order to encourage bank credit and deposit expansion. Individual banks could, of course, reduce their own excess reserves, and the rapidity and eagerness with which they did so would affect the Federal funds rate. In practice, though, banks may be slow to realize that the System is easing the money market and thus, at least for a while, may be sluggish in selling off excess reserves in the Federal funds market. This could mean that at the beginning of an effort significantly to ease the money market it would take fairly sizable excess reserves in the banking system to lower the Federal funds rate to, say, a 5 per cent average for a statement week. But once individual banks realized that it did not pay to be slow in disposing of excess reserves, a lower average level of excess reserves for the banking system would result for any given Fed funds rate.

Policy alternative B. (16) This alternative is presented in the event that the Committee may wish to consider a more aggressive easing in the money market than under alternative A in order to increase the likelihood of moving closer to a 5 per cent money growth rate (and around 6 per cent bank credit) in the fourth quarter, partly as a way station to moving on to a 6 - 7 per cent growth path for money for the fourth and first quarters taken together. Suggested language for such a directive is shown below.

"To implement this policy, the Committee seeks to promote some FURTHER easing of conditions in credit markets and moderate

SOMEWHAT GREATER growth in money THAN SOUGHT EARLIER and attendant bank credit expansion over the months ahead. System open market operations until the next meeting of the Committee shall be conducted with a view to maintaining bank reserves and money market conditions consistent with those objectives, taking-account-of-the-fortherming-Treasury-financings."

(with the quarter already half over) the staff would expect the Federal funds rate to have to drop well below 5 per cent, and probably also below 4 per cent, as indicated in line (c) of paragraph (10). One might, however, expect that a Federal funds rate in a 4--5 per cent range would prove consistent with a money growth rate somewhere in a 4--5 per cent annual rate range. The weekly patterns of money supply and bank credit in the inter-meeting period consistent with a 5 per cent growth rate in money are shown in the following table:

Monetary Aggregates, Weekly (\$ bill., seat. adj.)

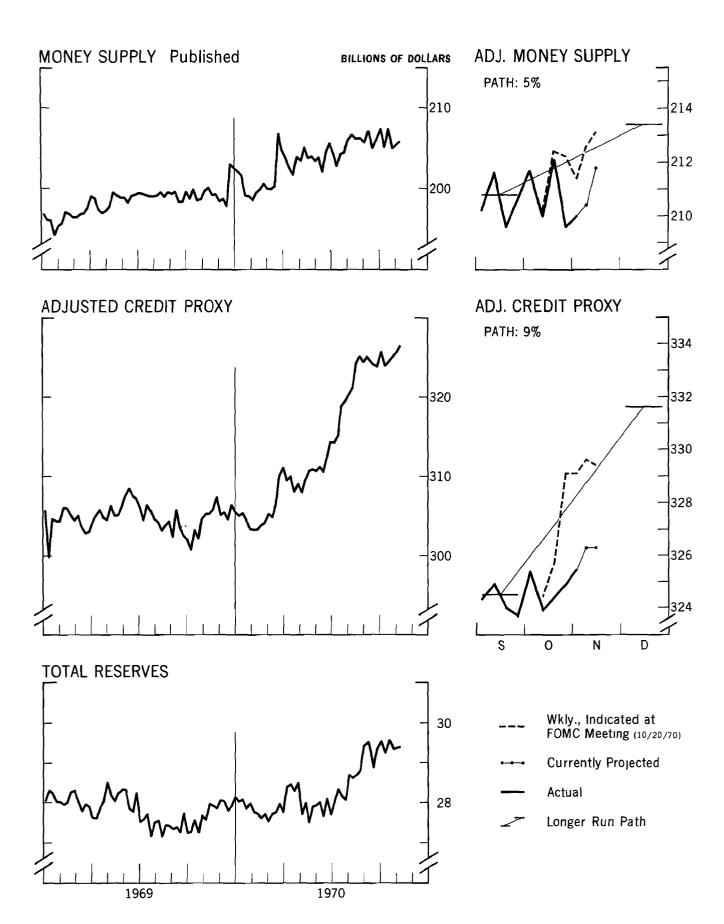
	Money Supply	Bank Credit	Total Reserves
November 11	210.4	326.3	29.4
18	211.8	326.4	29.7
25	211.8	326.7	29.9
December 2	212.6	326.7	29.8
9	212.6	328.7	30.0
16	213.2	328.8	29.9

- (18) Over this period member bank borrowings would be expected to be at minimal levels (apart from the necessitous borrowing noted earlier) and net free reserves might consistently emerge, although it is very difficult, for reasons noted earlier, to predict how large net free reserves may be. The 3-month Treasury bill rate might drop to around 4-1/2 per cent, at least temporarily, and a very substantial and sustained rally in bond markets would likely be generated. With short-term market rates low, Euro-dollar borrowings of banks would tend to drop significantly further as banks would be willing and able to obtain domestic CD's in volume; moreover, as markedly lower interest rates developed, banks would begin to lengthen CD maturities to lock up relatively low interest cost funds, and short-term Euro-dollars (maturing within thirty days) would become relatively less attractive.
- (19) If a 5 per cent growth rate in money supply were attained in the fourth quarter, the Federal funds rate could likely remain in a 4 5 per cent range to achieve a 7 8 per cent money growth in the first quarter, assuming GNP in nominal terms rises in the first quarter by about the 9 per cent annual rate that is projected. If money growth were less than 5 per cent in the fourth quarter, money market conditions probably would have to be eased somewhat further in the first quarter since it would take a larger than 7 8 per cent money growth rate in that quarter to compensate for the shortfall from 5 per cent in the fourth quarter.
- (20) The table below shows monthly patterns of monetary aggregates consistent with alternative B.

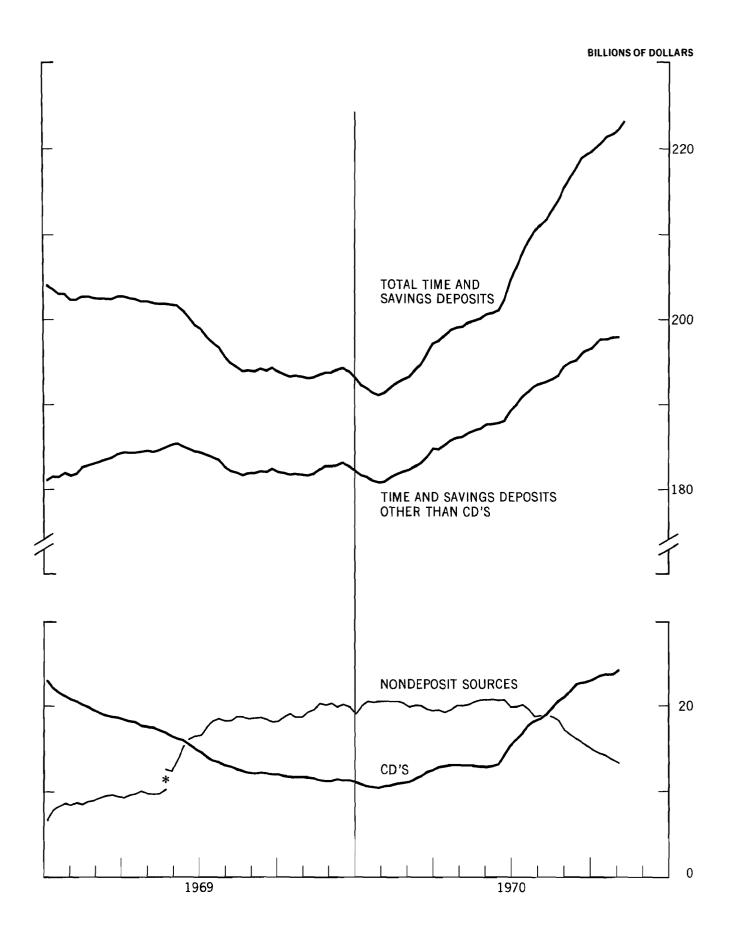
Selected Monetary Aggregates, Monthly (\$ billion, seasonally adjusted--% annual rates of change in parentheses)

	Adjusted Money	Adjusted Bank	Total
	Supply	Credit Proxy	Reserves
September, 1970	210. 7	324.5	29. 2
	(1. 1)	(9.7)	(27, 5)
October	210.8	324. 7	29.4
	(0.6)	(0. 7)	(-3.8)
November	211.4	326.4	29.7
	(3.5)	(6.5)	(11.5)
December, 1970	213.4	329.5	30.0
	(11,3)	(11.5)	(14.0)
March, 1971	217.1	338.1	30.7
Fourth quarter (Dec. over Sept.)	(5.0)	(6.0)	(7.5)
First quarter (March over Dec.)	(7.0)	(10.5)	(9.5)

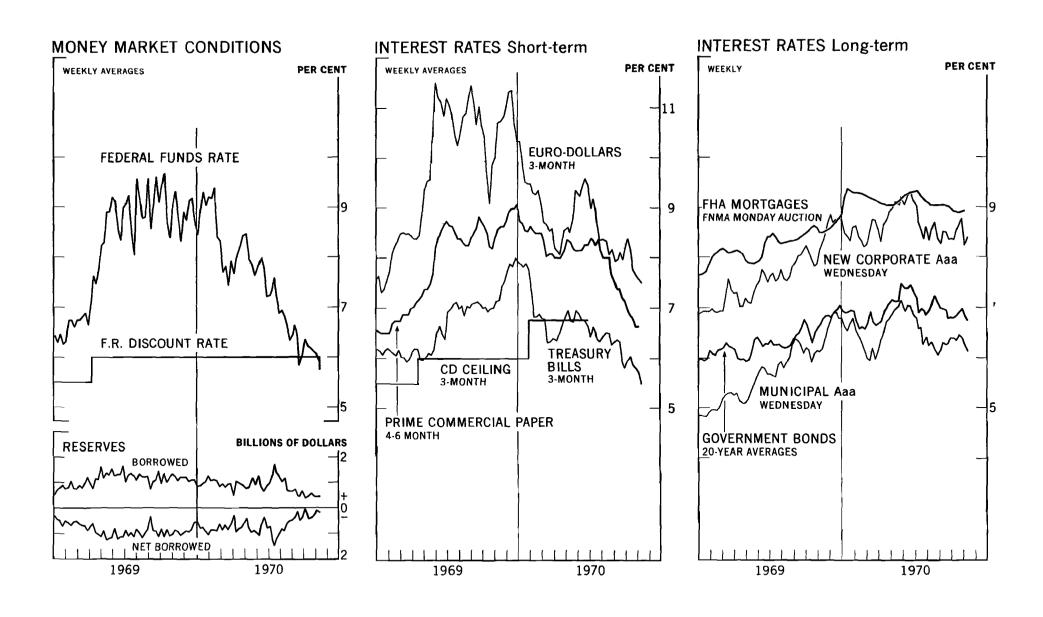
MONETARY AGGREGATES



INTEREST BEARING SOURCES OF BANK FUNDS



MONEY MARKET CONDITIONS AND INTEREST RATES



PATHS OF KEY MONETARY AGGREGATES

NOVEMBER 13, 1970

SEASONALLY ADJUSTED

			sted Proxy		Supply blished	Money Adjus	Supply ted	U.S. Gov Demand	ernment Deposits		eposits	i	eserves
	Period	Path as of Oct. 20	Current Proj	3 Path as of Oct. 20	Current Proj.	5 Path as of Oct. 20	6 Current Proj	7 Path as of Oct. 20	8 Current Proj.	9 Path as of Oct. 20	Current Proj.	Path as of Oct. 20	Current Proj.
		Monthly P	attern in B	illions of D	ollars				_				
1970:	June July Aug. Sept. Oct. p Nov. (proj.) Dec. (proj.)	311.1 315.8 321.9 324.5 326.4 329.4 331.6	311.1 315.8 321.9 324.5 324.7 326.2 327.3	203.6 204.3 206.0 206.3 207.1 208.2	203.6 204.3 206.0 206.2 206.1 206.6	208.2 209.0 210.5 210.8 211.6 212.7 213.4	208.2 209.0 210.5 210.7 210.8 211.3 212.3	4.8 4.4 6.4 6.2 5.8 5.9 5.3	4.8 4.4 6.4 6.2 5.2 5.6 4.8	201.0 206.9 211.8 216.9 221.7 225.5 228.8	201.0 206.9 211.8 217.0 221.0 223.9 226.6	27.9 28.0 28.6 29.2 29.1 29.9 30.0	27.9 28.0 28.6 29.2 29.4 29.6 29.7
		Annual Pe	rcentage	Rates of C	hangeQu	arterly an	d Monthly	[!			
1970:	1st Qtr. 2nd Qtr. 3rd Qtr. 4th Qtr.	0.5 6.5 17.2 9.0	0.5 6.5 17.2 3.5	3.8 4.2 5.3 5.0	3.8 4.2 5.1 3.0	4.9 6.0 5.0 5.0	4.9 6.0 4.8 3.0			0.4 13.8 31.6 22.0	0.4 13.8 31.8 17.5	- 2.9 2.6 19.1 7.5	- 2.9 2.6 19.2 5.0
	June July Aug. Sept.	7.0 18.1 23.2 9.7	7.0 18.1 23.2 9.7	- 1.8 4.1 10.0 1.7	- 1.8 4.1 10.0 1.2	1.2 4.6 8.6 1.7	1.2 4.6 8.6 1.1			8.4 35.2 28.4 28.9	8.4 35.2 28.4 29.5	0.5 6.0 23.3 31.0	0.5 6.0 23.3 27.5
	Oct. p Nov. (proj.) Dec. (proj.)	7.0 11.0 8.5	0.7 5.5 4.0	4.5 6.0	- 0.6 3.0 6.0	4.5 6.0 4.0	0,6 3.0 5.5			26.5 20.5 17.5	22.1 15.5 14.5	-16.5 33.5 5.5	- 3.8 9.5 8.5
		Weekly Pa	i ttern in Bi 323.9		ollars 205.1		210.0	4.9	.4.7	221.2	220.8	28.4	29.2
1970:	Oct. 14 21 28	324.4 325.7 329.1	324.4 324.9	205.7 207.9 207.7	207.2 205.0	210.2 212.4 212.2	212.1 209.6	4.8 7.5	4.1 6.2	222.1 223.0	221.5 221.8	29.5 29.5	29.5 29.3
	Nov. 4 11 18	329.1 329.6 329.4	325.5 326.3 326.3	206.9 208.1 208.6	205.4 205.8 207.2	211.4 212.6 213.1	210.0 210.4 211.8	7.0 7.0 6.1	6.3 6.9 5.4	224.0 224.7 225.5	222.2 223.3 223.9	29.5 29.9 30.0	29.3 29.4 29.6

NOTES: Annual rates of change other than those for the past are rounded to the nearest half per cent. Money supply adjusted series reflects the preliminary adjustment for certain cash items in the process of collection associated with Euro-dollar transactions. Current projection for weekly and monthly data have been adjusted by a constant amount of \$4.9 billion.

AGGREGATE RESERVES AND MONETARY VARIABLES

NOVEMBER 13, 1970

RETROSPECTIVE CHANGES, SEASONALLY ADJUSTED

(In per cent, annual rates based on monthly averages of daily figures)

	Reserve	Aggregates			Monetar	y Variables			Add	denda
	1	2	3 Total	4		Money Supply	y	8	9 Thrift	10 Nonbank
Period	Total Reserves	Nonborrowed Reserves	Member Bank Deposits	Adjusted Credit Proxy	5 Total	6 Currency	7 Private Demand Deposits	Time Deposits Adjusted	Instit. Deposits	Commercial Paper
<u>Annually</u> 1968 1969	+ 7.8 ~ 1.6	+ 6.0	+ 9.0 - 4.0	n.a.	+ 7.2 + 2.5	+ 7.4 + 5.8	+ 7.1 + 1.5	+11.5	+ 6.3 + 3.4	n.a. n.a.
<u>Semi-annually</u> 1st Half 1969 2nd Half 1969	+ 0.7 - 3.9	- 3.7 - 2.4	- 3.5 - 4.6	n.a.	+ 4.3 + 0.6	+ 6.5 + 4.9	+ 3.7	- 4.0 - 6.7	+ 4.8 + 1.9	n.a. +27.6
1st Half 1970	- 0.2	+ 1.9	+ 3.3	+ 3.5	+ 4.0	+ 8.3	+ 2.9	+ 7.1	+ 4.3	+14.0
Quarterly 3rd Qtr. 1969 4th Qtr. 1969 1st Qtr. 1970 2nd Qtr. 1970 3rd Qtr. 1970	- 9.3 + 1.4 - 2.9 + 2.6 +19.2	- 4.8 - 0.1 - 0.4 + 4.1 +24.4	- 9.4 + 0.1 + 0.6 + 6.0 +24.1	- 4.3 + 2.0 + 0.5 + 6.5 +17.2	 + 1.2 + 3.8 + 4.2 + 5.1	+ 3.6 + 6.2 + 7.0 + 9.4 + 3.3	- 1.3 + 2.9 + 2.8 + 5.4	-13.3 + 0.4 +13.8 +31.8	+ 2.3 + 1.4 + 1.7 + 6.9 +10.0	+31.0 +22.4 +13.2 +14.3 -17.7
Monthly 1969: Sept. Oct. Nov. Dec.	 -11.7 + 9.7 + 6.3	+ 7.7 -17.9 + 5.5 +12.1	+ 1.7 - 9.2 + 9.7	+ 1.6 - 7.9 +13.1 + 0.8	+ 0.6 + 1.2 + 1.8	- 2.6 +10.6 + 7.9	- 0.8 - 0.8 - 1.6 + 2.3	- 2.5 - 3.7 - 0.6 + 4.3	+ 3.7 - 0.7 + 3.0 + 1.9	+40.7 +20.0 +11.7 +34.2
1970: Jan. Feb. Mar. Apr. May June	+ 3.1 -12.0 +21.3 -13.9 + 0.5	+ 7.2 -15.6 + 7.5 +25.4 -19.0 + 6.2	- 4.2 - 8.0 +14.0 +16.8 - 4.5 + 5.8	- 3.5 - 5.5 +10.7 +13.7 - 1.2 + 7.0	+ 9.0 -10.7 +13.2 +10.7 + 3.5 - 1.8	+ 5.2 + 7.8 + 7.8 + 7.7 +15.3 + 5.0	+10.1 -15.5 +14.1 +10.9 - 2.3	-12.4 - 0.6 +14.4 +22.2 +10.3 + 8.4	- 4.2 + 2.8 + 6.6 + 8.1 + 5.3 + 7.0	+ 3.6 +35.7 + 0.4 +71.3 +10.7 -37.3
July Aug. Sept. Gct. p	+ 6.0 +23.3 +27.5 - 3.8	-16.1 +48.8 +40.1 - 0.3	+22.7 +29.2 +19.0 +10.1	+18.1 +23.2 + 9.7 + 0.7	+ 4.1 +10.0 + 1.2 - 0.6	+ 7.5 + 2.5 + 7.5	+ 2.3 +12.3 + 1.5 - 3.0	+35.2 +28.4 +29.5 +22.1	+13.3 + 6.1 +10.5 + 9.8	-88.4 -14.1 +53.0 +32.3

NOTE: Aggregate reserve series have been adjusted to eliminate changes in percentage reserve requirements against deposits, but reserve requirements on Euro-dollar borrowings are included beginning October 16, 1969, and requirements on bank-related commercial paper are included beginning October 1, 1970.

Table 3

AGGREGATE RESERVES AND MONETARY VARIABLES

NOVEMBER 13, 1970

SEASONALLY ADJUSTED

(Based on averages of daily figures)

							(Based on a	verages	or daily ligh	1163)	<u> </u>	mmercial (2006	12	713
			Agg	regate Res	erves	Member Ba	nk Deposits	} 1	Money Sup	ply		Time Depos	sits	ħ	Addendum
	Period		1 Total	Non- borrowed	3 Required	4 Total	U.S. Govt. Demand	6 Total	7 Currency	8 Private Demand Deposits	1	CD's	11 Other	Adjusted Credit Proxy	Nonbank Comm Paper
			(in m	illions of d	oilars)					(In bill	ions of do	llars)			
1969:	Jan. Feb. Mar.		28,139 28,060 27,972	27,318 27,206 27,024	27,902 27,832 27,729	297.0 296.7 294.2	5.4 6.7 4.8	195.8 196.3 196.8	43.5 43.8 44.1	152.3 152.5 152.6	203.2 202.4 202.3	22.1 20.2 19.0	181.1 182.2 183.3		
	Apr. May June		27,775 28,235 28,056	26,754 26,888 26,705	27,614 27,942 27,742	295.4 295.1 292.6	5.9 5.9 4.0	198.1 198.3 199.0	44.2 44.5 44.8	154.0 153.8 154.2	202.3 201.7 200.8	18.1 17.2 16.0	184.2 184.5 184.8	n.a. 307.5	n.a. 25.5
	July Aug. Sept.		27,530 27,401 27,402	26,275 26,214 26,383	27,334 27,161 27,144	288.0 285.3 285.7	2.4 2.9 4.4	199.3 199.0 199.0	45.0 45.3 45.2	154.4 153.8 153.7	197.7 194.5 194.1	14.0 12.7 12.7	183.7 181.8 181.4	305.7 303.8 304.2	26.1 26.6 27.5
	Oct. Nov. Dec.		27,354 27,783 27,928	26,210 26,538 26,806	27,129 27,548 27,707	283.5 285.8 285.8	3.1 5.6 4.9	199.1 199.3 199.6	45.6 45.9 45.9	153.6 153.4 153.7	193.5 193.4 194.1	11.8 11.4 11.2	181.7 182.0 182.9	302.2 305.5 305.7	27.9 28.2 29.0
1970:	Jan. Feb. Mar.		28,001 27,722 27,723	26,966 26,615 26,782	27,823 27,523 27,536	284.8 282.9 286.2	5.3 5.6 5.9	201.1 199.3 201.5	46.1 46.4 46.7	155.0 153.0 154.8	192.1 192.0 194.3	10.7 10.5 11.2	181.4 181.5 183.1	304.8 303.4 306.1	29.1 30.0 30.0
	Apr. May June		28,216 27,890 27,902	27,350 26,916 27,056	28,046 27,692 27,713	290.2 289.1 290.5	5.2 3.0 4.8	203.3 203.9 203.6	47.0 47.6 47.8	156.2 156.2 155.9	197.9 199.6 201.0	12.7 13.0 12.9	185.2 186.6 188.1	309.6 309.3 311.1	31.8 32.0 31.0
	July Aug. Sept.		28,041 28,585 29,240	26,694 27,780 28,708	27,896 28,408 29,024	296.0 303.2 308.0	4.4 6.4 6.2	204.3 206.0 206.2	48.1 48.2 48.2	156.2 157.8 158.0	206.9 211.8 217.0	16.0 18.8 21.6	190.9 193.0 195.4	315.8 321.9 324.5	28.8 28.4 29.7
	Oct.	Þ	29,373	28,916	29,134	310.6	5.2	206.1	48.5	157.6	221.0	23.5	197.5	324.7	30.5
1970:	Sept.	2 9 16 23 30	28,801 29,402 29,482 28,878 29,322	28,160 28,741 28,996 28,518 28,734	28,623 29,068 29,126 28,985 29,030	306.8 307.1 308.3 307.9 308.2	7.1 7.1 5.9 6.2 5.2	206.2 205.8 207.1 205.0 206.1	48.1 48.4 48.3 48.3 48.1	158.1 157.4 158.8 156.7 158.0	213.8 215.4 216.6 217.7 218.9	20.4 20.9 21.5 22.5 22.7	193.4 194.5 195.1 195.2 196.2	325.0 324.3 324.9 324.0 323.7	29.5 29.7 30.1 30.4 29.3
	Oct.	7 14 21 28 p	29,497 29,205 29,496 29,307	29,142 28,803 29,930 28,772	29,155 29,138 29,250 29,022	310.6 309.5 310.2 311.3	5.4 4.7 4.1 6.2	207.2 205.1 207.2 205.0	48.3 48.6 48.6 48.5	158.9 156.5 158.7 156.5	219.8 220.8 221.5 221.8	23.1 23.5 23.7 23.7	196.7 197.2 197.7 198.0	325.4 323.9 324.4 324.9	30.0 30.2 31.0 31.1
	Nov.	4 p	29,346	28,955	29,045	312.3	6.3	205.4	48.6	156.8	222.2	24.2	198.0	325.5	30.4

NOTES: Aggregate reserve series have been adjusted to eliminate changes in percentage reserve requirements against deposits, but reserve requirements on Eurodollar borrowings are included beginning October 16, 1969, and requirements on bank-related commercial paper are included beginning October 1, 1970.

Adjusted credit proxy includes mainly total member bank deposits subject to reserve requirements, bank-related commercial paper, and Euro-dollar borrowings of U.S. banks. Weekly data are daily averages for statement weeks. Monthly data are daily averages except for nonbank commercial paper figures which are for last day of month.

Table 4

MARGINAL RESERVE MEASURES
(Dollar amounts in millions, based on period averages of daily figures)

Period Free Facestree Total		_		Member Banks Borrowings					
	Doried	Free	Excess		Res	erve Ci	Count		
	reriod	reserves	reserves	Tota1	Major	banks			
					8 N.Y.	Outside N.Y.	other	l	
meding in): 69January February Februa	onthly (reserves weeks								
					ŀ			}	
February	• .	,,,,	250	226	101	200	140	0.50	
Marcht									
Aprt	February	- 580	2 56	836	62	255	215	304	
Aprt	March	- 635	202	837	58	233	254	293	
May June -1,116 24.3 1,359 123 346 397 493 July -1,078 266 1,311 89 250 364 608 August -997 214 1,211 81 253 226 621 September -744 282 1,026 83 236 222 465 October -9975 238 1,213 120 387 250 456 November -9975 238 1,213 120 387 250 456 December -9975 238 1,213 120 387 250 456 December -975 238 1,212 20 331 250 456 Maccent -976 159 928 148 287 232 261 March -751 129 880 90 225 287 278 478 Aprii -6067 178							260		
June								1	
July -1,045 266 1,311 89 250 364 608 August - 997 214 1,211 81 253 256 621 September - 744 282 1,026 83 236 222 485 October - 995 195 1,190 106 327 293 464 November - 975 238 1,213 120 387 250 456 December - 849 278 1,127 268 310 220 329 970January - 759 169 928 148 287 232 261 March - 751 129 8860 90 225 287 278 April - 687 178 865 227 331 119 188 May - 765 159 924 165 241 228 290 July - 1,134 183 1,317 218 460 348 291 August - 706 171 907 140 289 217 261 September361 171 907 140 289 273 281 August - 706 175 881 143 273 187 September361 134 467 101 116 292 August - 706 175 881 143 278 273 187 September381 138 467 101 116 292 970APT - 610 339 949 232 264 161 292 970APT - 610 339 949 232 264 161 292 8 317 179 496 - 269 49 178 8 317 179 496 - 269 49 178 15 - 945 102 1,017 322 509 47 139 22 811 158 969 517 252 81 119 29 - 783 111 884 63 361 259 211 May 6 - 424 350 774 93 248 220 213 29 - 783 111 884 63 361 259 211 May 6 - 424 350 774 93 248 220 213 20 - 965 214 1,179 332 310 243 244 20 - 965 214 1,179 332 310 243 244 20 - 965 214 1,179 332 310 243 244 21 - 718 273 991 93 260 304 333 31 19 494 278 278 278 278 31 1 - 718 273 991 93 260 304 333 31 1 - 718 273 991 93 260 304 333 31 1 - 718 273 991 93 260 304 333 31 1 - 718 273 991 93 260 304 333 31 1 - 718 273 991 93 260 304 333 31 1 - 718 273 991 93 260 304 305 31 1 - 718 273 991 93 260 304 305 31 1 - 718 273 991 93 260 304 305 31 1 - 718 273				1,359				1	
August	June	[-1,078	(277	1,355					
August	July	-1,045	266	1,311	89	250	364	608	
September October - 744 282 1,026 83 236 222 485 October - 995 195 195 1,190 106 327 293 464 Necember - 949 278 1,127 268 310 220 329 970January - 759 169 928 148 287 232 261 Narch - 751 129 880 90 225 287 228 414 March - 751 129 880 90 225 287 278 April - 687 178 865 227 331 119 188 May - 756 171 907 140 289 241 128 290 July - 1,314 185 1,317 218 466 348 291 August - 1,313 185 1,317 218 466 348 291 August			214		81	253	256	621	
October November - 995 195 1,190 106 327 293 464 November November - 975 238 1,213 120 387 250 456 December - 849 278 1,127 268 310 220 329 270-January - 759 169 928 148 287 232 261 March - 751 129 880 90 225 287 278 April - 687 178 865 227 331 119 188 May - 765 159 924 165 241 228 290 Julv -1,134 183 1,317 218 460 348 291 July -1,134 183 1,317 218 460 348 291 August - 706 175 881 143 278 273 187 September - 374 235 609 101 115 274 119 970-April - 610 339 949 232 264 161 292 970-April - 610 339 949 232 264 161 292 27 - 88 - 317 179 496 269 49 178 15 - 945 102 1,017 322 509 47 139 22 - 811 158 969 517 252 81 119 29 - 783 111 884 63 361 259 211 May 6 - 424 350 774 93 248 220 213 May 6 - 424 350 774 93 248 220 213 May 6 - 424 350 774 93 248 220 213 June 3 -1,029 195 1,224 269 354 262 339 June 3 -1,029 195 1,224 269 354 262 339 June 3 -1,029 195 1,224 269 354 262 339 July 1 - 718 273 991 93 260 304 333 8 -1,219 75 1,294 360 467 569 371 274 July 1 - 718 273 991 93 260 304 333 8 -1,219 75 1,294 360 477 493 248 229 July 1 - 718 273 991 93 260 303 321 15 - 882 188 1,010 114 362 303 323 16 - 721 136 660 79 181 221 179 29 - 788 92 681 21 243 229 188 Aug. 5 - 822 188 1,010 114 362 303 323 19 - 589 92 681 21 243 229 188 Aug. 5 - 822 188 1,010 114 362 303 323 19 - 589 92 681 21 243 229 188 Aug. 5 - 822 188 1,010 114 362 303 323 19 - 589 92 681 31 386 360 300 300 20 - 789 244 245 245 24									
November -975 238	•								
December - 849 278	October		195	(1,190					
Procession - 849	November	- 975	238	1,213	120	387	250	456	
Pebruary	December	- 849	278		268	310	220	329	
Pebruary - 916	December	[1,	1)			
Pebruary - 916	70January	759	169	928	148	287	232	261	
March	•				J				
April - 687 178 865 227 331 119 188 May - 765 159 924 165 241 228 229 June - 736 171 907 140 289 217 261 July - 1,134 183 1,317 218 460 348 291 August - 706 175 881 143 260 348 291 August - 374 235 609 101 115 274 119 October p - 283 184 467 112 40 312 103 970Apr. 1 - 610 339 949 232 264 161 292 8 - 317 179 496 269 49 178 15 - 9A5 102 1,017 322 509 47 139 22 - 811 158 969 517 252 81 119 29 - 783 111 894 63 361 259 211 May 6 - 424 350 774 93 248 220 213 20 - 965 214 1,179 332 310 243 294 27 - 889 44 933 86 150 224 202 204 27 - 889 44 933 86 150 247 450 June 3 -1,029 195 1,224 269 354 262 339 10 - 721 136 857 195 238 169 255 17 - 390 268 658 797 313 248 229 July 1 - 718 273 991 93 260 304 322 July 1 - 718 273 991 93 260 304 323 Aug. 5 - 822 188 1,010 114 362 300 130 Sept. 2 - 1,201 185 1,386 139 531 295 288 388 Aug. 5 - 822 188 1,010 114 362 300 130 Sept. 2 - 482 178 660 79 181 221 179 Sept. 2 - 482 178 660 79 181 221 179 Sept. 2 - 482 178 660 79 181 221 179 Sept. 2 - 482 178 660 79 181 221 179 Sept. 2 - 482 178 660 79 181 221 179 Sept. 2 - 482 178 660 79 181 221 179 Sept. 2 - 482 178 660 79 181 221 179 Sept. 2 - 482 178 660 79 181 221 179 Sept. 2 - 482 178 660 79 181 221 179 Sept. 2 - 482 178 660 79 181 221 179 Sept. 2 - 482 178 660 79 181 221 179 Sept. 2 - 482 178 660 79 181 221 179 Sept. 2 - 482 178 660 79 181 221 179 16 - 144 356 500 89 93 224 94 23 - 507 - 47 460 75 77 72 259 49 30 - 389 272 661 103 79 324 155 Oct. 7 - 46 332 398 4 305 342 155 Oct. 7 - 46 332 398 4 305 342 155 Oct. 7 - 46 332 398 4 305 342 155 Oct. 7 - 46 332 398 4 305 342 155 Oct. 7 - 46 332 398 4 305 342 155 Oct. 7 - 46 332 398 4 305 342 155 Oct. 7 - 46 332 398 4 305 342 155 Oct. 7 - 46 332 398 4 305 342 155 Oct. 7 - 46 332 398 4 305 342 155 Oct. 7 - 388 200 588 16 97 342 133 Nov. 4 p - 131 292 423 11 15 15 311 86					1		1		
May June - 765 159 924 165 241 228 290 July -1,134 183 1,317 218 460 348 221 261 July -1,134 183 1,317 218 460 348 221 261 September - 374 235 669 143 278 273 187 970Apr. 1 - 610 339 949 232 264 161 292 15 - 945 102 1,017 322 509 47 139 222 - 811 158 969 517 252 81 119 29 - 783 111 894 63 361 259 221 13 13 - 782 28 810 150 254 202 204 204 27 - 889 44 933 86 150 247 450 450 450 440 27 - 889 44			i e						
May June -765 159 924 165 241 228 290 July -1,134 183 1,317 218 460 348 291 Auguet -706 175 881 143 278 273 187 September -706 175 881 143 278 273 187 September -283 184 467 12 40 312 103 970Apr. 1 -610 339 949 232 264 161 292	April								
June - 736 171 907 140 289 217 261 July -1,134 183 1,317 218 460 348 291 August - 706 125 881 143 278 273 187 October p - 374 225 609 101 115 274 119 970Apr. 1 - 610 339 949 232 264 161 292 15 - 915 102 1,017 322 509 47 139 15 - 915 102 1,017 322 509 47 139 22 - 811 158 969 517 252 81 119 29 - 783 111 894 63 361 259 211 May 6 - 424 350 774 93 248 220 213 13 - 782 28 80 <		765	159	924	165	241	228	290	
July									
August September									
September	-								
October p	August	- 706	175					187	
October p	September	J - 374		609	101	115	274	119	
8	October p	- 283	184	467	12	40	312	103	
8	3	L			222	264	l	202	
15	· · · · · ·					į.			
22			179	496		269	49	1/8	
22	15	- 9)15	102	1,017	322	509	47	139	
May 6	22	- 811	158	1 '					
May 6									
13	29	- /63	111	094	1 63	201	259	211	
13	May 6	- 424	350	774	93	248	220	213	
20						1			
27									
June 3			{ 2 1 4	1,179	332	310	243	294	
June 3	27	- 889	44	933	86	150	247	450	
10			1	1	ł	}			
17 24	June 3		į.	1,224	269	354	262	339	
17	10	- 721	136	857	195	238	169	255	
July 1 - 799 88 887 97 313 248 229 July 1 - 718 273 991 93 260 304 333 8 -1,219 75 1,294 360 412 283 240 15 -1,451 230 1,681 467 569 371 274 22 -1,201 185 1,386 139 531 395 321 29 -1,078 153 1,231 29 528 388 286 Aug. 5 - 822 188 1,010 114 362 303 231 12 - 894 280 1,174 382 362 300 130 19 - 589 92 681 21 243 229 188 26 - 522 138 660 56 144 262 198 Sept. 2 - 482 178 660 79 181 221 179 9 - 348 415 763 160 143 </td <td>17</td> <td>- 390</td> <td>268</td> <td>658</td> <td>1</td> <td>251</td> <td>188</td> <td>219</td>	17	- 390	268	658	1	251	188	219	
July 1 - 718 273 991 93 260 304 333 8 -1,219 75 1,294 360 412 283 240 15 -1,451 230 1,681 467 569 371 274 22 -1,201 185 1,386 139 531 395 321 29 -1,078 153 1,231 29 528 388 286 Aug. 5 - 822 188 1,010 114 362 303 231 12 - 894 280 1,174 382 362 300 130 19 - 589 92 681 21 243 229 188 26 - 522 138 660 56 144 262 198 Sept. 2 - 482 178 660 79 181 221 179 9 - 348 415 763 160 143 343 117 16 - 144 356 500 89 93 224 94 23 - 507 - 47 460 75 77 259 49 23 - 507 - 4					l .				
8	- -	, , , ,		1 307	1	1 3-3	}~	1	
8	July 1	- 718	273	991	93	260	l 304	333	
15								1	
22 -1,201 185 1,386 139 531 395 321 29 -1,078 153 1,231 29 528 388 286 Aug. 5 - 822 188 1,010 114 362 303 231 12 - 894 280 1,174 382 362 300 130 19 - 589 92 681 21 243 229 188 26 - 522 138 660 56 144 262 198 Sept. 2 - 482 178 660 79 181 221 179 9 - 348 415 763 160 143 343 117 16 - 144 356 500 89 93 224 94 23 - 507 -47 460 75 77 259 49 30 - 389 272 661 103 79 324 155 Oct. 7 - 46 332 398 4 3				1 1			1		
29									
Aug. 5	22		185		[139	[531	395	321	
Aug. 5	29	-1,078	153		29	528	J 388	286	
12						1	1	ſ	
12	Aug. 5	- 822			114				
19	12	= 894			382	362	(300	130	
26									
Sept. 2 - 482 178 660 79 181 221 179 9 - 348 415 763 160 143 343 117 16 - 144 356 500 89 93 224 94 23 - 507 -47 460 75 77 259 49 30 - 389 272 661 103 79 324 155 Oct. 7 - 46 332 398 4 305 89 14 - 409 41 450 21 46 310 73 21 - 388 200 588 16 97 342 133 28 p - 291 144 435 11 13 293 118 Nov. 4 p - 131 292 423 11 15 311 86									
9	40	1 - 522	}]	"		1		
9	Sent. 2	- 482	178	660	79	181	221	179	
16 - 144 356 500 89 93 224 94 23 - 507 -47 460 75 77 259 49 30 - 389 272 661 103 79 324 155 Oct. 7 - 46 332 398 4 305 89 14 - 409 41 450 21 46 310 73 21 - 388 200 588 16 97 342 133 28 p - 291 144 435 11 13 293 118 Nov. 4 p - 131 292 423 11 15 311 86									
23									
30	16								
30	23	- 507	-47	460	75	77	259	49	
Oct. 7 - 46 332 398 4 305 89 14 - 409 41 450 21 46 310 73 21 - 388 200 588 16 97 342 133 28 p - 291 144 435 11 13 293 118 Nov. 4 p - 131 292 423 11 15 311 86									
14	30	1)	1			
14	Oct. 7	- 46	332	398		\ 4	305	89	
21 - 388 200 588 16 97 342 133 18 18 19 19 11 15 1		1			1				
28 p - 291 144 435 11 13 293 118 Nov. 4 p - 131 292 423 11 15 311 86		;			1			1	
28 p - 291 144 435 11 13 293 118 Nov. 4 p - 131 292 423 11 15 311 86	21			1	1				
Nov. 4 p - 131 292 423 11 15 311 86	28 p	- 291	144	435	11] 13	293	118	
				ĭ		1	ſ	ſ	
	Nov. 4 p	- 131	292	423	11) 86	
	11 n	- 178					282		

p - Preliminary.

Table 5 SOURCE OF FEDERAL RESERVE CREDIT Retrospective Changes
(Dollar amounts in millions of dollars, based on weekly averages of daily figures)

	Total Federal		. Government securi	ties	Federal			
Period	Reserve credit	Total		į.	Repurchase	Agency	Bankers'	Member banks
	(Excl. float)	holdings	Bills 1/	Other	agreements	Securities	acceptances	borrowings
Year:	Í Í				}	1		ì
1968 (12/27/67 - 12/25/68)	+3,757	+3,298	+2,143 ()	+1,176	- 21	- 3	- 52	+ 514
1969 (12/25/68 - 12/31/69)	+5,539	+5,192	+4,279 ()	+ 707	+ 206	+ 67	+ 35	+ 245
Weekly:	1							[
1970Apr. 1	+ 179	+ 114	- 111 (+ 71)		+ 225	+ 34	+ 18	+ 13
8	- 720	- 222	- 40 ()		+ 182	+ 37	- 8	- 453
15	+ 947	+ 370	+ 156 ()		+ 214	+ 24	+ 32	+ 521
22	+ 222	- 132	+ 2 ()		- 134	- 14	- 28	- 48
29	- 17	+ 36	- 72 ()		+ 108	+ 6	+ 16	- 75
May 6	+1,047	+1,118	+1,154 ()	l	- 36	+ 43	+ 6	- 120
13	+ 131	+ 195	+ 397 ()		- 202	- 62	- 38	+ 36
20	+ 512	+ 88	- 50 ()		+ 138	+ 36	+ 19	+ 369
27	- 664	- 359	- 221 ()		- 138	- 36	- 23	- 246
June 3	+ 639	+ 326	` ′	ļ	1		-5	
10	+ 639 - 213	+ 326 + 158	+ 255 () + 143 ()		+ 71 + 15	+ 22		+ 291
17	+ 224	+ 453	+ 143 () + 539 ()		+ 15 - 86	- 16	+ 2	- 367 - 199
24	- 449	- 678	- 678 (- 145)		00		- 14	1
	1 1	ł	1					+ 229
July 1	+ 544	+ 445	+ 445 (+ 145)				- 5	+ 104
8	+ 231	- 73] - 73 ()				+ 1	+ 303
15	+1,181	+ 632	()		+ 632	+ 99	+ 63	+ 387
22	- 185	+ 194	+ 638 (- 29)		- 444	- 61	- 23	- 295
29	- 460	- 230	- 42 (- 42)		- 188	- 38	- 37	- 155
Aug. 5	+ 362	+ 540	+ 293 (+ 71)		+ 247	+ 33	+ 10	- 221
12	+ 591	+ 462	+ 266 ()		+ 196	- 28	- 7	+ 164
19	+ 231	+ 653	+ 644 ()		+ 9	+ 45	+ 26	- 493
26	- 343	- 243	+ 209 ()	}	- 452	- 50	- 29	- 201
Sept. 2	+ 189	+ 164	+ 31 ()		+ 133			
9	+ 473	+ 316	+ 193 ()			+ 13 + 37	+ 12	
16	- 248	+ 14	- 236 (- 90)		l	+ 37 - 12	+ 17	+ 103
23	- 982	- 864	- 358 (- 256)		+ 250 - 506	- 38	+ 13	- 263
30	+ 689	+ 418	+ 222 (+ 346)		+ 196	+ 49	- 40	- 40 + 201
	1	,	1]			+ 21	+ 201
Oct. 7	- 482	- 183	- 165 ()		- 18	- 25	- 11	- 263
14	- 5	~ 56	()	ļ	- 56	+ 4	- 5	+ 52
21	+ 224	+ 67	- 16 ()	j	+ 83	+ 16	+ 5	+ 136
28 p	- 477	- 268	~ 63 ()		- 205	- 44	~ 14	- 151
Nov. 4 p	+ 690	+ 610	+ 241 ()		+ 369	+ 63	+ 29	- 12
11 p	- 48	75	- 94 (- 214)		+ 19	- 6	+ 11	+ 22
r	1 1	1	1	l	' *′			1 24

 $[\]underline{1}/$ Figures in parenthesis reflect reserve effect of match sale-purchase agreement. p - Preliminary.

Table 6

MAJOR SOURCES AND USES OF RESERVES

Retrospective and Prospective Changes
(Dollar amounts in millions, based on weekly averages of daily figures)

	(Dollar amounts in millions, based on weekly averages of daily figures)											
		ctors			upp1y			= Change	Bank use of reserves			
Period	Federal Reserve	Gold and spec. dr.	Currency	Treasury	77	Foreign	Other nonmember	in	Required	Excess		
	credit (excl. float) 1/	rights	outside banks	operations	Float	deposits and gold loans	deposits and F.R. accounts	total reserves	reserves	reserves		
	110ac) 17	(S i		dicate	seff			Teserves	 			
Year:		1 1										
1968 (12/27/67-12/25/68)	+3,757	-2,067	-3,221	+ 928	+1,309	- 67	+ 869	+1,508	+1,563	- 55		
1969 (12/25/68-12/31/69)	+5,539		-2,676	- 813	+ 241	+ 54	- 898	+1,448	+1,340	+ 108		
Weekly:		1		¦					1			
1970Apr. 1	+ 179]]	+ 92	- 51	+ 219	- 51	- 54	+ 334	+ 91	+ 243		
8	- 720		- 11	+ 128	+ 582	+ 24	- 100	- 97	+ 72	- 169		
15	+ 947		- 231	+ 218	- 554	+ 78	+ 98	+ 554	+ 621	- 68		
22 29	- 222 - 17		- 304 + 397	- 194 - 211	+ 658 - 409	+ 28	+ 174	+ 110	+ 54	+ 56		
					'*'		- 32	- 246	- 199	- 47		
May 6	+1,047		- 201 - 405	- 109	- 79	- 34	- 163	+ 461	+ 222	+ 239		
13 20	+ 131 + 512		- 405 - 423	+ 191 + 307	- 152 + 264	- 55 + 44	- 174	- 842	- 520	- 322		
27	- 664		+ 302	+ 176	- 346	+ 44 + 84	- 354 - 312	+ 350 - 764	+ 164 - 594	+ 186 - 170		
	ſ	ľ	ĺ	ĺ	Ĭ	1	1	11	11	Í		
June 3 10	+ 639		- 143 - 135	+ 55 + 431	- 63 - 182	- 15 - 11	- 192 - 33	+ 282 - 144	+ 131 - 85	+ 151 - 59		
17	+ 224		- 447	- 169	+ 348	- 12	+ 290	+ 234	+ 102	+ 132		
24	- 449		- 77	- 162	+ 230	- 50	+ 79	- 430	245	- 185		
July 1	+ 544		+ 360	+ 99	- 543	+ 44	+ 44	+ 550	+ 365	+ 185		
8	+ 231		- 365	- 179	+ 574	- 23	- 213	+ 24	1 + 222	- 198		
15	+1,181		- 313	+ 109	- 521	- 39	- 40	+ 375	+ 220	+ 155		
22	- 185		- 465	+ 145	+ 503	+ 37	+ 113	+ 151	+ 196	- 45		
29	- 460		+ 943	- 25	- 605	- 35	- 7	- 190	- 158	- 32		
Aug. 5	+ 362		- 125	+ 9	- 166	- 17	- 105	- 41	- 76	+ 35		
12	+ 591		- 177	+ 73	- 13	+ 18	- 45	+ 446	+ 354	+ 92		
19 26	+ 231		- 401	- 161 + 120	+ 259 - 169	- 22 - 26	+ 21	73	4 115	- 188		
	- 343		+ 233				- 152	- 338	- 384	+ 46		
Sept. 2	+ 189		+ 196	+ 15	- 217	+ 20	- 14	+ 193	+ 153	+ 40		
9 16	+ 473 - 248		- 170 - 205	- 78 + 154	+ 379 + 183	+ 4 + 6	- 45 + 100	+ 561 - 10	+ 324 + 49	+ 237 - 59		
23	- 982		- 124	- 124	+ 552	- 15	+ 169	- 527	- 124	- 403		
30	+ 689		+ 861	+ 35	- 833	- 210	+ 95	+ 640	+ 321	+ 319		
Oct. 7	- 482		- 260	+ 214	+ 20	- 10	+ 271		- 328	1		
14	- 5		- 329	- 163	+ 174	- 4	+ 1	- 248 - 322	- 11	+ 80 - 311		
21	+ 224		- 549	- 63	+ 576	+ 9	+ 230	+ 426	+ 278	+ 148		
28 p	- 477		+ 431	- 71	- 351	- 15	+ 1	- 484	- 439	- 45		
Nov. 4 p	+ 690		+ 47	+ 146	- 359	- 24	- 271	+ 228	+ 69	+ 159		
11 p	- 48		- 360	+ 81	+ 476	+ 1	- 86	+ 61	+ 97	- 36		
			<u> </u>	<u> </u>			 	₩	₩	 		

^{1/} For retrospective details, see Table 5. p - Preliminary