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MONETARY POLICY ALTERNATIVES

Prepared for the Federal Open Market Committee

By the staff Board of Governors of the Federal Reserve System

MONETARY POLICY ALTERNATIVES

Recent Developments

(1) Open market operations in the first four weeks after the last FOMC meeting were directed toward maintaining unchanged reserve market conditions, with federal funds expected to trade around 8 percent. On October 29 the Desk implemented the FOMC's decision that, against the background of a weakening economy, called for a more accommodative policy stance following the conclusion of a meaningful budget agreement: The borrowing assumption was reduced by \$50 million (of which about half was in recognition of falling seasonal borrowing) and the federal funds rate was expected to decline by 25 basis points to 7-3/4 percent. Over the intermeeting period, federal funds often traded on the high side of expectations, as commercial banks managed reserve positions cautiously to avoid being caught short and needing either to be seen tapping funding markets in size or being forced to the window. With the Desk boosting the supply of excess reserves early in the current maintenance period, federal

^{1.} To account for the declines in seasonal borrowing that typically occur in the fall, the allowance for adjustment and seasonal borrowing also was reduced by \$50 million at the beginning of each of the first two maintenance periods following the meeting and in the middle of the current maintenance period.

^{2.} The Federal Reserve's published "effective" federal funds rate also has been boosted by increasing spreads on federal funds sold to Japanese banks relative to the rates paid by domestic banks and displayed on broker screens. The Japanese banks are reported to be borrowing more heavily in the overnight funds market, and their credit standing has declined somewhat as a result of falling asset values in Japan, which have eroded their capital directly and raised questions about their loan portfolios.

funds have generally traded a bit below 7-3/4 percent in recent days.3

- (2) Most other market interest rates also declined over the intermeeting period. In general, decreases were greater for Treasury than for private issues, owing to increased concerns about credit quality and more restrictive supply conditions discussed below in paragraph (4).

 Three-month Treasury bill rates fell 15 basis points, while 30-year Treasury bond yields declined 20 basis points. Yields on Treasury bonds rose appreciably shortly after the October FOMC meeting when the budget accord failed to pass; yields more than retraced these increases in recent weeks, however, reflecting renewed prospects for fiscal restraint, clearer signs of a softening economy, and heightened preference for safe investments.
- (3) Indications of greater weakness in the U.S. economy and the associated expectations of easing by the Federal Reserve contributed to a 3-1/2 percent decline in the dollar's weighted average exchange value; the decline was intensified by signs that monetary policy was tightening in Germany and remaining restrictive in Japan. The Bundesbank increased its Lombard rate by 1/2 percentage point, paving the way for a moderate increase in market rates, and the Bank of Japan took pains to signal an unchanged monetary policy in the face of a bond market rally.⁴

^{3.} Although low levels of excess collateral for Federal Reserve notes were a matter of some concern during the period, in the event open market operations were not constrained by the level of note collateral. Early in November, authorized note collateral (that is, eligible collateral other than foreign currency assets) was boosted by \$2-1/2 billion, in effect, as a result of the unwinding by the Exchange Stabilization Fund of warehousing of foreign currency (German marks) with the Federal Reserve. A balance equivalent to \$4-1/2 billion remains warehoused with the System.

- (4) Concerns about creditworthiness were manifest in various sectors of the credit markets during the intermeeting period. Announcements that loan problems worsened during the third quarter and the deteriorating economic outlook and slumping real estate markets all implied greater difficulties for a broad range of borrowers and their creditors. A number of finance and insurance companies encountered increased investor resistance, and yields on their debt have risen relative to Treasury securities. Funding difficulties of certain money center banks persisted; some lenders reportedly trimmed or eliminated a number of lines, money funds continued to shun the obligations of a number of banks, and rates on capital issues of several money center banks rose further. The prime rate remained at 10 percent, resulting in an unusually wide spread over the federal funds and CD rates, as banks sought to build margins and discourage borrowing. In addition, survey results indicate that banks have further tightened credit standards and both price and nonprice terms of credit for their business borrowers in the last three months. For nonfinancial firms with direct access to credit markets, the spread of rates paid by the highest quality borrowers relative to those on Treasury issues was little changed. However, lower-rated issuers faced some widening of spreads: The gap between Baa- and Aaa-rated corporate bonds rose 20 basis points, and that between rates on medium- and high-grade commercial paper rose about 1/8 percentage point from its September average.
- (5) Diminished credit availability and retrenchment of spending plans appear to be continuing to restrain business borrowing. C&I loans at banks are estimated to have contracted at a 2-1/2 percent annual rate over September and October. Bond issuance by nonfinancial firms also has

been subdued for several months. During September, firms obtained a substantial amount of financing in the commercial paper market, but outstandings have been about unchanged since the end of that month. Data for September indicate some moderation in business credit growth at finance companies. In the tax-exempt markets, problems seem to have been confined to the obligations of several large cities with troubled finances. Overall issuance was fairly strong in September before dropping off in October. The few pieces of available data on recent household borrowing suggest a modest pace of expansion. About one-quarter of surveyed banks indicated that they had begun to tighten lending standards for residential mortgages, and a quarter said that their enthusiasm for making consumer loans had waned. Heavy Treasury borrowing to finance its outsized fourthquarter deficit is augmenting growth of total nonfinancial sector debt; this measure is estimated to have expanded at a 6-3/4 percent rate for the year through September, leaving it near the middle of its monitoring range.

(6) The broad monetary aggregates were about flat in October, with M2 expanding at only a 1 percent annual rate and M3 contracting slightly. Some slowing had been anticipated in view of weak nominal income growth and the likely absence of the special factors that had boosted growth during the preceding two months, but money growth has fallen well short of projections. The shortfall in M2 can be only partially accounted for by the downward revision in estimated income growth. In general, money growth since the spring has been substantially slower than can be explained on the basis of historical relationships with income and opportunity costs. The underpredictions of the money demand models

may be indicative of the reduced role of deposit intermediaries in the credit process, but they also may suggest the possibility that the path of income was weaker than is now estimated.

(7) The sluggishness of M2 in October was broad-based. Its liquid retail component contracted, while small time deposits remained subdued despite a narrowing of opportunity costs in recent months. Demand deposits also dropped. Growth of M2 from the fourth quarter through October was 4 percent at an annual rate. The managed liability components of the non-M2 part of M3 also declined in October as banks restrained asset growth and thrifts shrank owing partly to the bulge in RTC resolutions around quarter-end. Institution-only money funds, however, surged, as their yields lagged the decline in market rates. Through October, M3 was only 1/2 percentage point above the lower bound of its annual range.

^{5.} Growth of the monetary base fell to a 7-1/2 percent rate in October from the 14 percent average rate of the previous two months, as currency growth slowed somewhat and required reserves declined at an 8 percent rate, in line with the drop in transactions deposits.

MONEY, CREDIT, AND RESERVE AGGREGATES (Seasonally adjusted annual rates of growth)

				QIV'89 to
	Aug.	Sept.	Oct.	Oct.
Money and credit aggregates				
M1	10.1	9.3	-2.9	4.0
M2	6.4	5.6	1.2	4.0
м3	4.4	0.9	-0.5	1.6
Domestic nonfinancial debt	7.5	7.2	n.a.	6.8 ¹
Bank credit	10.3	0.1	1.2	5.1
eserves measures				
Nonborrowed reserves 2	2.1	10.5	-4.7	-0.3
Total reserves	8.6	6.7	-9.1	-0.3
Monetary base	13.1	14.6	7.0	8.8
emo: (Millions of dollars) Adjustment plus seasonal				
borrowing	799	618	392	
Excess reserves	868	909	849	

n.a. - Not available.

NOTE: Monthly reserve measures, including excess reserves and borrowing, are calculated by prorating averages for two-week reserve maintenance periods that overlap months.

^{1.} Through September.

^{2.} Includes "other extended credit" from the Federal Reserve.

Monetary Policy Alternatives

- (8) Three policy alternatives are presented below for Committee consideration. Under alternative B, federal funds would continue trading around 7-3/4 percent. Under alternative A, the funds rate would move down to the 7-1/4 percent area, while under alternative C it would firm slightly, returning to around the 8 percent level prevailing at the last meeting. The associated level of adjustment plus seasonal borrowing under alternative B would be set at \$250 million in the first maintenance period after the meeting and might need to be lowered another \$50 million over the intermeeting period to accommodate the ongoing decline in the demand for seasonal credit. Under alternative A, the initial level of borrowing would be lowered to \$200 million (or the discount rate could be cut by 1/2 percentage point), while under alternative C it would be raised to \$275 million. The relationship of reserve availability and the federal funds rate is likely to remain highly uncertain and volatile as banks manage reserves to avoid being seen at the discount window or being forced to tap potentially unreceptive funding sources.
- (9) Interest rates currently embody anticipation of a 1/4 point drop in the funds rate in the near-term. Nevertheless, market rates are not likely to back up significantly under the unchanged reserve conditions of alternative B, since expectations of an easing would be maintained if, as expected, incoming information confirms a weakening economy. An unchanged policy would provide some underpinning for the foreign exchange value of the dollar, especially if market participants see that stance as in part motivated by concerns about potential further weakening in the

dollar. Quality spreads may widen further, reflecting year-end positioning and mounting concerns about defaults. A number of large banks, especially those with weak capital positions and eroding access to capital markets, expect to be holding down balance sheet totals to bolster capital positions and investor confidence. At the same time, many investors, particularly mutual funds and others publishing year-end statements, are likely to intensify efforts to shed assets of less than top quality, including holdings of some bank obligations. Under these conditions, it will be difficult to distinguish transitory disturbances in relative interest rates and credit flows from signals of more fundamental and lasting problems of borrowers.

(10) In view of the expectations of some easing already built into rates, short-term interest rates would decrease somewhat less than the 50 basis point decline in the federal funds rate, under alternative A. Banks may be encouraged to advance credit less reluctantly by the wider margins they would enjoy, and by greater confidence of repayment as lower interest rates countered weakness in the economy and bolstered asset prices. Banks eventually would pass the drop in funding costs on to their customers through a lower prime rate, though the adjustment could be sluggish, especially given the desire to limit footings at year-end, and margins will remain unusually high. In the context of the softer economy and lessened pressures on resources, long-term rates, too, should decline, with fixed-rate mortgages dropping below 10 percent. The extent of the decline in long-term rates might be limited should the likely drop in the foreign exchange value of the dollar be especially steep, which would be seen as accentuating price pressures, possibly limiting the scope for

further policy easing. The odds on a sharper drop in the dollar would be greater if the easing seemed to reflect especially heightened Federal Reserve concern about the strength of the financial system and the real economy, with reduced priority given to restraining price pressures. From this perspective, the risk that market participants would interpret a 1/2 percentage point cut in the federal funds rate as conveying such signals might be increased if the cut were accomplished by a reduction in the discount rate.

- of its recent decline in response to a rise in the federal funds rate. A tightening of policy would come as a surprise to market participants, especially in light of the recent decline in the funds rate on the heels of the budget accord. Short-term rates would generally rise by 1/4 percentage point or more, as expectations of further easing were extinguished. Bond rates also would increase initially. Quality spreads might widen appreciably, with strains on lower-rated borrowers seen as being heightened as the Federal Reserve appeared willing to tolerate a weaker path for economic activity.
- alternatives is presented in the table. (Detailed data are shown on the table and charts on the following pages.) Under all the alternatives, M2 and M3 will be substantially below the paths specified in the current directive, despite the recent easing of money market rates. To some extent, this reflects the money growth data already in hand for October. Looking forward, because the supply of credit through depositories has tightened more than anticipated, asset expansion at depositories and

associated demand for funding will continue to be damped. Nominal GNP for the fourth quarter is now projected to be somewhat slower than at the last FOMC meeting, which also implies reduced demands for money and credit. M2 will remain below the midpoint of its 1990 range and M3 just above its lower bound under all three alternatives; differences in monetary growth that emerge late in the year under the various alternatives have imperceptible effects on annual growth for 1990 but more impact on the position of the aggregates relative to their tentative ranges for 1991.

	Alt. A	Alt. B	Alt. C
Growth from Sept. to Dec.			
M2	2	1-1/2	1-1/4
м3	0	0	0
M1	1-1/2	1	3/4
Associated federal funds			
rate ranges	5-1/2 to 9-1/2	6 to 10	6 to 10

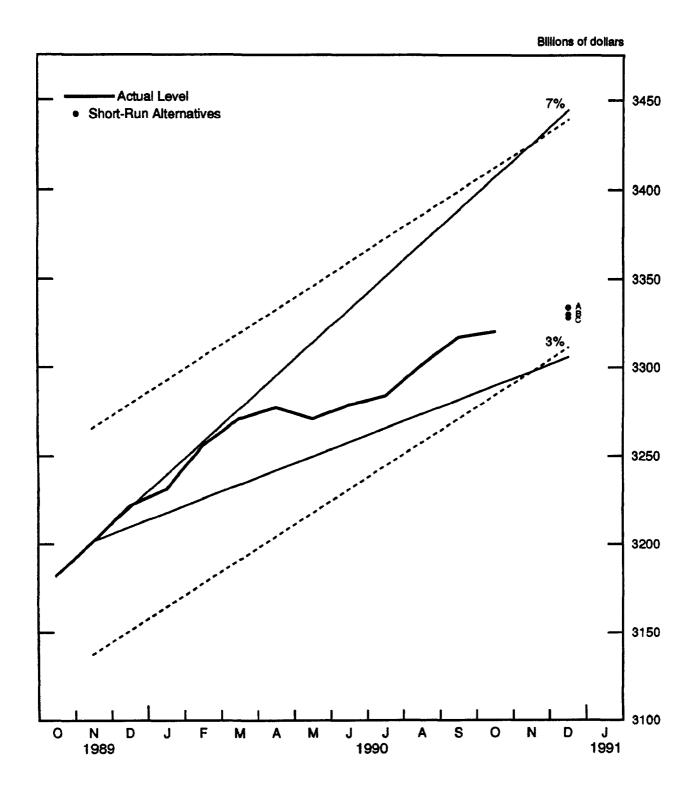
a bit--to a 1-3/4 percent rate over November and December. Its M1 component is projected to resume expanding over the final two months of the year, boosted by some bounceback of transactions deposits owing to a lagged response to the previous reduction in opportunity costs and the effect of declining market rates on compensating balance requirements. On a quarterly average basis, M2 would grow at a 2-3/4 percent rate, appreciably faster than nominal GNP in the staff forecast but well below projections of standard money demand models. The strengthening of M2 would be expected to extend into the first quarter, with this aggregate above the lower end of its provisional 1991 range. Under alternative A, the drop in opportunity costs would boost M2 to a 2-3/4 percent rate over the

Alternative Levels and Growth Rates for Key Monetary Aggregates

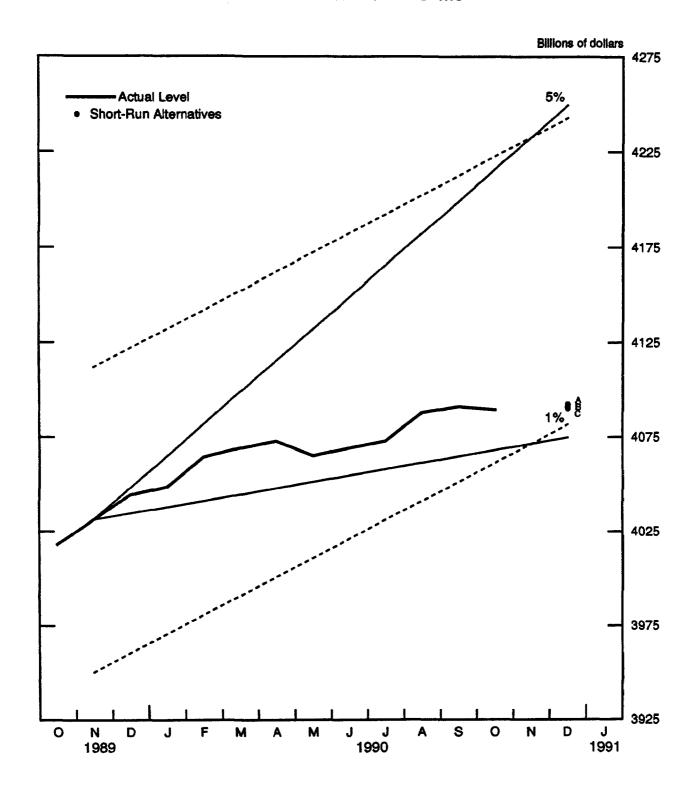
		M2			м3		M1			
	Alt. A	Alt. B	Alt. C	Alt. A	Alt. B	Alt. C	Alt. A	Alt. B	Alt. C	
Levels in billions										
1990 July	3283.8	3283.8	3283.8	4072.8	4072.8	4072.8	809.0	809.0	809.0	
August	3301.4	3301.4	3301.4	4087.7	4087.7	4087.7	815.8	815.8	815.8	
September	3316.9	3316.9	3316.9	4090.7	4090.7	4090.7	822.1	822.1	822.1	
October	3320.1	3320.1	3320.1	4089.1	4089.1	4089.1	820.1	820.1	820.1	
November	3322.0	3321.2	3320.8	4090.8	4090.5	4090.3	822.2	821.8	821.6	
December	3333.9	3330.1	3328.1	4091.8	4090.5	4089.8	825.0	824.1	823.7	
Monthly Growth Rates										
1990 July	1.9	1.9	1.9	1.1	1.1	1.1	-0.6	-0.6	-0.6	
August	6.4	6.4	6.4	4.4	4.4	4.4	10.1	10.1	10.1	
September	5.6	5.6	5.6	0.9	0.9	0.9	9.3	9.3	9.3	
October	1.2	1.2	1.2	-0.5	-0.5	-0.5	-2.9	-2.9	-2.9	
November	0.7	0.4	0.3	0.5	0.4	0.4	3.0	2.5	2.3	
December	4.3	3.2	2.6	0.3	0.0	-0.1	4.1	3.4	3.1	
Quarterly Ave. Growth	Rates									
1989 Q4	7.1	7.1	7.1	2.0	2.0	2.0	5.1	5.1	5.1	
1990 Q1	6.4	6.4	6.4	2.9	2.9	2.9	4.9	4.9	4.9	
Q2	2.8	2.8	2.8	0.8	0.8	0.8	3.5	3.5	3.5	
Q 3	3.1	3.1	3.1	1.4	1.4	1.4	4.1	4.1	4.1	
Q4	3.0	2.8	2.7	0.7	0.6	0.6	3.3	3.1	3.0	
Sept 90 to Dec. 90	2.1	1.6	1.3	0.1	0.0	-0.1	1.4	1.0	0.8	
Oct. 90 to Dec. 90	2.5	1.8	1.4	0.4	0.2	0.1	3.6	3.0	2.7	
24 89 to Q3 90	4.1	4.1	4.1	1.7	1.7	1.7	4.2	4.2	4.2	
24 89 to Q4 90	3.9	3.8	3.8	1.5	1.5	1.5	4.0	4.0	3.9	
Q4 89 to Sept 90	4.3	4.3	4.3	1.8	1.8	1.8	4.8	4.8	4.8	
Q4 89 to Oct. 90	4.0	4.0	4.0	1.6	1.6	1.6	4.1	4.1	4.1	
Q4 89 to Dec. 90	3.8	3.7	3.6	1.4	1.4	1.3	4.0	3.9	3.9	

1990 Target Ranges: 3.0 to 7.0 1.0 to 5.0

Chart 1
ACTUAL AND TARGETED M2



Chert 2
ACTUAL AND TARGETED M3



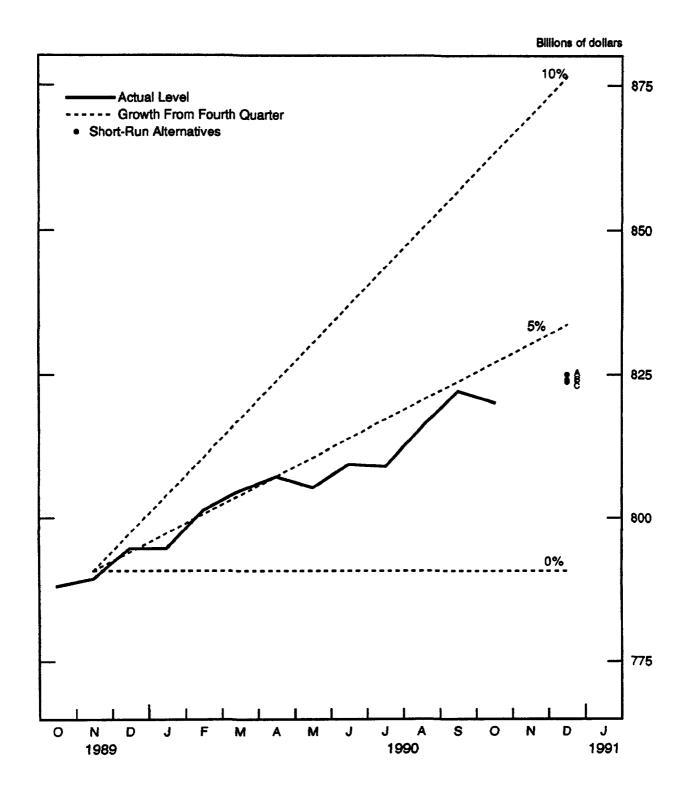
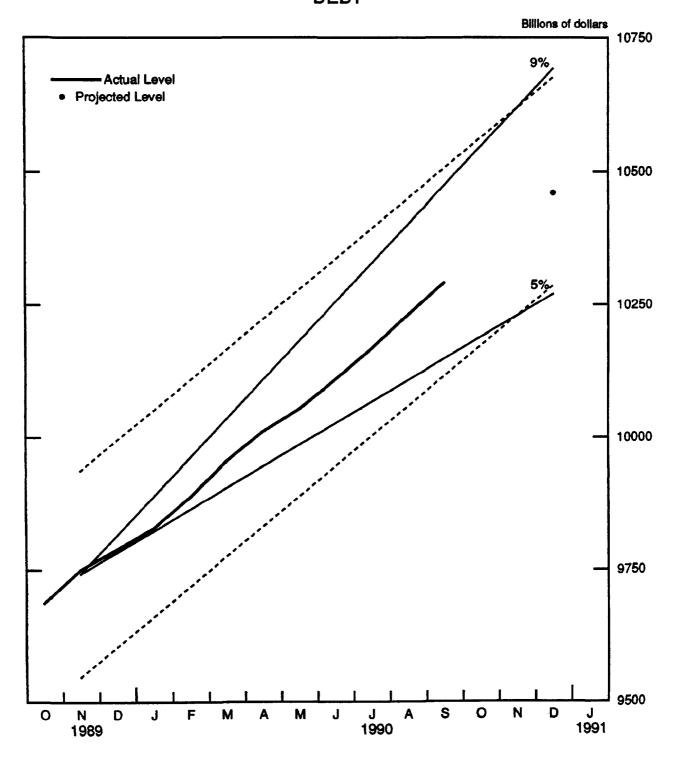


Chart 4
DEBT



final two months of the year and put it in the middle portion of its new range in the first quarter. The firming in M2 growth under alternative C would be quite modest and this aggregate would be entering the new year around the lower end of its tentative 1991 range.

- any of the alternatives. Some pickup in RTC resolution activity from the pace of recent weeks also will tend to restrain growth of the aggregates, especially M3. The slight differences in the growth of M3 under alternative A and C in December would owe largely to inflows to money market mutual funds, as their rate advantage temporarily rose or declined, respectively. In all cases, growth in M3 through the first quarter of next year would be around the lower end of its tentative range.
- demands will damp private credit growth over the remainder of the year. In the business sector, credit flows for construction and development activities and commercial properties will decline in the fourth quarter, partly in response to the pull back by lenders. Less than top-rated firms--including medium and smaller businesses--are likely to face higher costs and further reduction in the availability of credit from banks and other lenders. In the context of desires to bolster capital ratios at year-end, the reluctance of banks to extend credit to some borrowers may be accentuated by demands from some borrowers with existing lines of credit. In particular, medium-rated commercial paper issuers can be expected to tap their backup lines with banks to pay down paper in response to wider spreads in that market. Household debt growth also

should slow, reflecting the weakness in consumption expenditures—especially for durables—and anemic housing activity. The growth of the debt of nonfederal sectors is expected to average only around 5 percent over the fourth quarter. The federal government, by contrast, will be a heavy borrower over the final two months of the year. As a result, the growth of total debt of domestic nonfinancial sectors is expected to be boosted to a rate of about 6 percent over this period, placing growth for the year at 6-3/4 percent, near the midpoint of its 5 to 9 percent range.

Directive Language

(16) Draft language for the operational paragraph, including the usual options, is shown below. The language for the last sentence on the federal funds rate range does not reflect any of the alternatives presented in the memorandum by Messrs. Lindsey, Kohn, and Sternlight.

OPERATIONAL PARAGRAPH

In the implementation of policy for the immediate future, the Committee seeks to DECREASE SOMEWHAT/ maintain/INCREASE SOMEWHAT the existing degree of pressure on reserve positions. Taking account of progress toward price stability, the strength of the business expansion, the behavior of the monetary aggregates, and developments in foreign exchange and domestic financial markets, slightly (SOMEWHAT) greater reserve restraint (WOULD) might or (SLIGHTLY) somewhat lesser reserve restraint would (MIGHT) be acceptable in the intermeeting period. The contemplated reserve conditions are expected to be consistent with growth of M2 and M3 over the period from September through December at annual rates of about ___ AND ___ 4 and 2 percent respectively. The Chairman may call for Committee consultation if it appears to the Manager for Domestic Operations that reserve conditions during the period before the next meeting are likely to be associated with a federal funds rate persistently outside a range of __ TO __ 6 to 10 percent.

SELECTED INTEREST RATES

(percent)

		Short-Term										Long	-Term			
	federal funds		Treasury bills condary market	1-vear	CDs secondary market 3-month	comm paper 1-month	money market mutual fund	bank prime <u>loan</u>		overnment constant places 10-year	stant 30-vear	A utility recently offered	municipal Bond Buyer	secondary market fixed-rate	primary fixed-rate 15	market ARM
	<u> </u>			4	151	61		- <u></u>	 1	10 _		12	13	14	1	16,
9 High Low	9.95 8.38	9 04 7.54	9.07 7.35	8 96 7.15	10,23 8,24	9.98 8.35	9.19 7 87	11 50 10.50	9 77 7 60	9 46 7 78	9.26 7.85	10 47 9.26	7.95 7.19	11.73 9.92	11.22 9.68	9 41 8.34
0 High Low	8.33 7.96	7.96 7.08	8 00 7.05	7.97 6 87	8.58 7.86	8 48 7.87	8.06 7.38	10.50 10 00	9 09 7.84	9 07 7 94	9.13 8.00	10.50 9 55	7.83 7.33	10.99 10.07	10.67 9.80	8.63 8 09
lonthiv								ľ								
Nov 89 Dec 89	8 55 8 45	7 69 7 63	7.49 7.42	7.25 7.21	8 39 8.32	8.47 8 61	8 33 8.22	10 50 10.50	7.80 7.77	7 87 7.84	7.90 7.90	9.28 9.36	7.39 7.31	10.06 10.06	9.77 9.74	8 51 8 39
Jan 90	8.23	7.64	7.55	7.38	8,16	8.20	8 05	10.11	8.13	8 21 8 47	8 26 8.50	9.63 9.84	7.43 7.52	10.30 10.49	9.90 10.20	8.39 8.46
Feb 90 Mar 90	8.24 8.28	7.74 7.90	7.70 7.85	7.55 7.76	8.22 8 35	8.22 8 32	7.94 7.95	10.00 10.00	8.39 8 63	8 59	8.56	9.04	7.52 7.53	10.49	10.20	8.53
Apr 90	8 26	7.77	7.84	7.80	8 42	8.32	7.99	10 00	8.78	8.79	8.76	10.09	7.62	10.75	10.37	8.55
May 90	8.18	7.74	7.76	7.73	8 35	8.24	7.98	10.00	8 69	8 76	8.73	10.04	7.59	10.68	10.48	8.59 8.50
Jun 90 Jul 90	8.29 8.15	7.73 7 62	7.63 7.52	7.53 7.40	8,23 8 10	8.21 8.09	7.96 7.64	10.00 10.00	8 40 8.26	8.48 8 47	8.46 8.50	9.85 9.96	7.47 7.40	10.37 10.26	10.16 10.04	8.43
Aug 90	8.13	7.45	7.38	7.26	7.97	7.99	7.49	10.00	8.22	8.75	8.86	10.29	7.57	10.41	10.10	8.35
Sep 90	8.20	7.36	7.32	7.24	8 06	8.09	7.47	10 00	8.27	8 89	9.03	10.28	7.72	10.45	10.18	8.28
Oct 90	8.11	7.17	7.16	7.06	8 06	8.04	7.45	10.00	8.07	8 72	8.86	10.23	7.74	10.47	10.18	8.21
Veekiy	}															
Aug 1 90	8.03	7.50	7.36	7 24	7.93	7.91	7.55	10.00	8.09	8 38	8 44	10.07	7.33	10.07	9.84 10.08	8.38 8.39
Aug 8 90 Aug 15 90	8.07 8.13	7.35 7.42	7.27 7.32	7 16 7.17	7.86 7.89	7.90 7.97	7 49 7.49	10.00 10.00	8.10 8.10	8.62 8 67	8.71 8.78	10.22 10.34	7.51 7.53	10.37 10.46	10.05	8.31
Aug 22 90	8.30	7.53	7.46	7.34	8.04	8.06	7.51	10.00	8.30	8 82	8.95	10.50	7.80	10.71	10.29	8.36
Aug 29 90	8.08	7.50	7.48	7.38	8.10	8 07	7.47	10.00	8.41	8 95	9 06	10.31	7.70	10.46	10.24	8.30
Sep 5 90	8.25	7.40	7.37	7.25	7.97	7.98	7.47	10.00	8.27	8 87	9.00	10.23	7.68	10.42	10.19	8.29
Sep 12 90	8.12	7.40	7.35	7.24	7.96	7.99	7.47	10.00	8.25	8.83	8.96	10.28	7.64	10.41	10.13	8.26
Sep 19 90 Sep 26 90	8.18 8.26	7.37 7.36	7.28 7.36	7.22 7.29	8 00 8.21	8.06 8.21	7.46 7.47	10.00 10.00	8.22 8.35	8 87 8.99	9.02 9.13	10.35 10.25	7.73 7.81	10.49 10.48	10.16 10.22	8.30 8.28
38p 20 90	0.20	7.30	7.30	1.25	0.21	0.21	7.41	10.00	0.55	0.33	3.10	10.25	7.01	10.40	10.22	
Oct 3 90	8.23	7.17	7.18	7.13	8.10	8.13	7.47	10.00	8.16	8.77	8.91	10.16	7.75	10.39	10.08	8.25
Oct 10 90	8.20 7.96	7.14 7.16	7.16 7.18	7.09 7.10	8.06 8.12	8.10 8.09	7.47 7.43	10 00 10.00	8.09 8.15	8.76 8.82	8.90 8.97	10.34 10.23	7.83 7.75	10.63 10.42	10.22 10.24	8.24 8.19
Oct 17 90 Oct 24 90	7.99	7.10	7.18 7.18	7.16	8 08	8.07	7.45 7.45	10.00	8.03	8.65	8.79	10.20	7.64	10.42	10.17	8.17
Oct 31 90	8.17	7.14	7.12	6.98	7.98	7.90	7.42	10.00	7.99	8.66	8.79	10.11	7.55	10.34	10.13	8.15
Nov 7 90	7.97	7.08	7.05	6.87	7.95	7.87	7.38	10.00	7.84	8.55	8.68	10.15	7.53	10.41	10.09	8.09
ailv	ł															
Nov 2 90	8.02	7.08	7.04	6 88	7.94	7.87	••	10.00	7.88	8 57	8.70	••			••	
Nov 8 90	7.77	7.09	7.06 7.04	6.88	7.99 7.99	7.90 7.91	••	10.00	7.82	8.58 8.49 p	8.73 8.63 p	••	••	••	••	••
Nov 9 90	7.67 p	7.05	7.04	6.86	7.99	7.91	••	10.00	7.77 p	0.48 p	0.03 p			··		··

NOTE Weekly data for columns 1 through 11 are statement week averages. Data in column 7 are taken from Donoghue's Money Fund Report. Columns 12, 13 and 14 are 1-day quotes for Friday. Thursday or Friday, respectively, following the end of the statement week. Column 13 is the Bond Buyer revenue index. Column 14 is the FNMA purchase yield plus toan servicing fee, on 30-day mandatory delivery commitments. Column 15 is the average contract rate on new commitments. Column 15 is the average contract rate on new commitments for 1-year, adjustable-rate mortgages(ARMs) at major institutional lenders offering both FRMs and ARMs with the same number of discount points.

p -- preliminary data

Money and Credit Aggregate Measures

Seasonally adjusted

NOV. 13, 1990

			Money stock mea	sures and liquid as	ișets	_	Bank credit	Dor	nestic nonlinan	ial debt
Period	M1	M2	comp	nsactions conents	мз	L	total loans and investments	U.S. government'	other*	tota
		2	in M2	in M3 only	5	- 6	7	8	9	10
NN. GROWTH RATES (%): ANNUALLY (Q4 TO Q4) 1987 1988 1989	6.3 4.3 0.6	4.3 5.2 4.6	3.6 5.5 5.9	12.0 10.6 -1.3	5.8 6.3 3.3	5.5 7.1 4.6	7.9 7.7 7.5	9.0 8.0 7.4	10.0 9.5 7.8	9.7 9.2 7.7
QUARTERLY AVERAGE 1989-4th QTR. 1990-1st QTR. 1990-2nd QTR. 1990-3rd QTR.	5.1 4.8 3.5 4.1	7.1 6.4 2.8 3.1	7.7 6.9 2.6 2.7	-16.6 -10.4 -7.3 -5.1	2.0 2.9 0.8 1.4	3.1 2.7 0.8	8.1 5.3 6.5 6.6	10.2 6.8 9.5 14.1	6.4 5.9 5.9 4.6	7.3 6.1 6.8 6.8
MONTHLY 1989-OCT. NOV. DEC.	8.0 2.0 8.2	6.9 7.3 7.6	6.7 9.0 7.5	-19.3 -9.2 -10.4	1.4 3.9 4.0	2.5 4.1 5.7	11.4 7.1 1.5	10.2 11.7 3.6	6.6 6.6 5.1	7.4 7.8 4.8
1990-JAN. FEB. MAR. APR. HAY JUNE JUNE JULY AUG. SEP. OCT. pa	0.0 10.0 5.1 3.7 -2.8 6.0 -0.6 10.1 9.3	3.5 9.2 5.3 -2.3 2.8 1.9 5.6	4.6 8.9 5.8 1.1 1.8 2.7 5.2 4.5	-7.6 -12.9 -15.9 -3.6 -2.3 -5.4 -2.0 -4.3 -19.1	1.2 4.7 1.4 1.2 -2.3 1.2 1.1 4.4 0.9	0.3 1.9 4.0 2.4 -7.2 4.8 2.7 3.0	2.9 9.2 10.0 5.3 3.2 7.1 6.9 10.3 0.1	4.1 8.4 12.8 7.4 7.2 14.3 13.6 19.1 11.0	5.2 6.7 6.5 6.5 4.2 4.8 6.0	5.0 7.1 8.3 6.7 5.2 6.9 7.5
EVELS (\$BILLIONS) : MONTHLY 1990-MAY JUNE JULY AUG. SEP.	805.4 809.4 809.0 815.8 822.1	3271.0 3278.7 3283.8 3301.4 3316.9	2465.7 2469.3 2474.8 2485.5 2494.8	794.0 790.4 789.1 786.3 773.8	4065.0 4069.1 4072.8 4087.7 4090.7	4887.1 4906.8 4918.0 4930.4	2653.8 2669.4 2684.7 2707.8 2708.5	2343.0 2370.9 2397.8 2436.0 2458.4	7710.5 7737.8 7768.6 7794.1 7832.8	10053.6 10108.7 10166.5 10230.1 10291.2
MEEKLY 1990-SEP. 3 10 .17 .24	819.5 820.2 820.0 821.1	3315.8 3316.8 3314.4 3315.1	2496.3 2496.6 2494.4 2494.0	784.6 779.7 777.4 768.8	4100.4 4096.5 4091.8 4083.9					
OCT. 1 8 15 22 p 29 p	828.2 821.8 818.8 818.4 820.0	3321.2 3325.2 3322.3 3317.7 3316.5	2493.1 2503.4 2503.5 2499.4 2496.4	763.1 766.7 766.2 772.5 770.8	4084.4 4091.9 4088.5 4090.3 4087.3					

^{1.} Debt data are on a monthly average basis, derived by averaging end-of-month levels of adjacent months, and have been adjusted to remove discontinuities.

p-preliminary
pe-preliminary estimate

Components of Money Stock and Related Measures

seasonally adjusted unless otherwise noted

NOV. 13, 1990

Period	Currency	Demand deposits	Other checkable deposits	Overnight RPs and Eurodollars NSA'		Savings deposits	Small denomi- nation time deposits?	mutua general purpose and broker/ dealer ²	market I funds Institu- tions only	Large denomi- nation time deposits*	Term RPs NSA'	Term Eurodolfars NSA'		Short- term Treasury securities	Commer- cial paper'	Bankers accep- tances
LEVELS (\$BILLIONS) :	 	2	3	4	5	66	7	8	9	10	11	12	13	14	15	16
ANNUALLY (4TH QTR.) 1987 1988 1989	195.0 210.7 220.8	291.5 287.6 279.5	260.5 280.4 283.1	87.6 83.3 76.1	529.3 504.9 479,9	416.2 428.2 407.7	903.6 1021.6 1138.9	220.5 237.5 308.0	87.2 86.7 101.5	482.3 538.0 560.7	107.4 123.2 105.1	92.4 102.7 80.2	99.8 108.8 116.8	261.9 267.1 322.1	258.4 326.2 349.7	44.5 40.7 40.6
MONTHLY 1989-SEP.	219.3	278.1	278.4	75.2	471.9	405.5	1132.6	295.9	101.6	565.6	113.9	85.5	115.7	311.3	350.3	41.0
OCT. NOV. DEC.	220.0 220.4 221.9	280.0 278.8 279.7	280.8 282.8 285.7	75.7 75.3 77.4	475.3 480.8 483.7	406.1 407.9 409.0	1135.9 1138.5 1142.3	302.7 309.0 312.4	101.1 101.1 102.3	562.7 561.0 558.3	109.6 108.9 96.9	80.1 79.3 81.1	116.2 116.8 117.5	317.4 318.6 330.3	350.0 351.3 347.9	40.0 40.5 41.2
1990-JAN. Feb. Mar.	224.6 226.6 228.4	277.3 280.2 279.3	285.4 287.0 289.5	81.6 82.4 81.9	485.0 489.4 494.9	410.2 413.6 414.6	1143.0 1142.6 1146.4	318.6 325.3 325.9	103.2 103.7 105.4	554.5 550.1 544.1	93.6 96.9 95.2	73.9 68.4 66.6	117.7 118.2 119.1	332.3 324.9 338.9	343.3 344.7 342.7	40.7 38.3 37.0
APR. May June	230.1 231.6 233.4	277.8 274.5 274.5	291.8 291.5 293.8	79.3 83.2 82.3	498.8 500.0 501.2	415.8 415.0 415.8	1147.7 1149.0 1147.1	325.8 320.4 321.9	106.8 107.3 107.3	538.3 535.4 532.8	94.8 95.8 98.7	65.5 67.2 64.4	119.9 120.7 121.5	330.3 316.5 332.2	357.5 349.6 349.4	35.8 35.3 34.6
JULY Aug. Sep.	235.4 238.4 241.5	274.7 277.9 279.7	291.2 291.6 292.6	84.2 83.0 82.2	502.5 505.6 507.2	416.3 416.3 415.8	1148.1 1149.2 1149.9	325.1 333.8 340.1	108.9 114.0 116.1	530.4 523.9 516.7	97.1 99.0 95.6	64.5 66.1 66.1	122.4 123.2	341.3 342.2	348.7 345.1	32. 6 32.2
															ļ	

Net of money market mutual fund holdings of these items.
Includes retail repurchase agreements. All IRA and Keogh accounts at commercial banks and thrift institutions are subtracted from small time deposits.
Excludes IRA and Keogh accounts.
Net of large denomination time deposits held by money market mutual funds and thrift institutions.
p-preliminary

NET CHANGES IN SYSTEM HOLDINGS OF SECURITES Millions of dollars, not sessonally adjusted

November 9, 1990

			Treasury bills					ycoupons			Federal	Net change	
Period		Na	Redemptions	Net		Net pu	rchases 3 4		Redemptions	Net	agencies redemptions	outright	
-	nou	Net 2 purchases	(-)	change	within 1 year	1-5	5-10	over 10	(-)	Change	(-)	holdings total ⁵	Net RPs
1987		13,233	9,329	3,905	3,359	9,779	2,441	1,858	370	17,366	276	20,994	-11,033
1988		7,635	2,200	5,435	2,176	4,685	1,404	1,398		9,665	587	14,513	1,557
1989		1,468	12,730	-11,263	327	946	258	284	500	1,315	442	-10,390	-1,683
1989	Q1	-3,842	2,200	-6,042	_	-228	-20	_		-248	188	-6,477	-5,591
	Q2	2,496	2,400	96	172	1,361	287	284		2,104	125	2,075	924
	Q3	-6,450	3,200	-9,650		-163	-9		***	-172	99	-9,921	-893
	Q4	9,264	4,930	4,333	155	-24		-	500	-369	31	3,934	3,877
1990	Q1	-3,799	1,400	-5,199	100	100				200	_	-5,000	-4,061
	Q2	10,892		10,892	50	100			***	150	78	10,964	500
	Q3	5,115	_	5,115	-		_				70	5,045	95
1989	November	8,794	3,530	5,264	155			_		155		5,419	-453
	December	1,983	_	1,883	_	-	_	_	_	_	1	1,883	3,867
1990	January	-1,065	1,000	-2,065							_	-2,065	-8,435
	February	-3,277	400	-3,677				_			-	-3,677	4,417
	March	543		543	100	100		_	-	200		742	-43
	April	5,798		5,796		100				100	78	5,818	-1,260
	May	3,365	_	3,365	_							3,365	-378
	June	1,732		1,732	50					50	-	1,782	2,146
	July	287		287	_			_		_	33	254	2,863
	August	4,197		4,197	_	_					37	4,160	1,110
	September	631	-	631	-					-	- 1	631	-3,878
	October	846	•••	846		-		-	_		34	812	36
eakly											1		
August		201		201			***			-		201	203
August		624	***	624					***	****	-	624	3,997
August		486		486						_		486	-2,210
August	22	25		25								25	-4,157
August	29	89	***	89			-				37	52	-4,157
eptember		3,077	-	3,077			-		_		-	3,077	4,774
eptember							-			***		<u> </u>	-8,202
eptember eptember		481	***	481			_				_	481	3,762 -3,097
•												1	
October			-	<u></u>	I		_						2,822
October		21	_	21							-	21	-3,257
October		200 625		200 625	l				_	-		200	-170
October October		625		625	l				-		34	591	-4,619
	'EL (bil. \$) ⁷	_		_	l				_	•••			2,490
ovember	7			121.7	25.4	59.5	13.1	24.5		122.5		250.6	-3.1

^{1.} Change from end-of-period to end-of-period.

within 1 year	1-5	5-10	over 10	total
2.5	2.5	1.1	0.2	6.3

^{2.} Outright transactions in market and with foreign accounts.

^{3.} Outright transactions in market and with foreign accounts, and short-term notes acquired 7. The levels of agency issues were as follows:

in exchange for maturing bills. Excludes maturity shifts and rollovers of maturing issues.

^{4.} Weekly net purchases of Treasury coupons are summed over all meturities.

^{5.} Reflects not change in redemptions (-) of Treasury and agency securities.

^{6.} Includes change in RPs (+), matched sale-plurchase transactions (-), and matched purchase sale transactions (+).