

Page 11: **Implied One-Year Forward Rates** are calculated by this Bank from Treasury constant maturity yields. Yields to maturity, $R(m)$, for securities with $m = 1, \dots, 10$ years to maturity are obtained by linear interpolation between reported yields. These yields are smoothed by fitting the regression suggested by Nelson and Siegel (1987),

$$R(m) = a_0 + (a_1 + a_2)(1 - e^{-m/50})/(m/50) - a_2 \times e^{-m/50},$$

and forward rates are calculated from these smoothed yields using equation (a) in table 13.1 of Shiller (1990),

$$f(m) = [D(m)R(m) - D(m-1)] / [D(m) - D(m-1)],$$

where duration is approximated as $D(m) = (1 - e^{-R(m) \times m})/R(m)$. These rates are linear approximations to the true instantaneous forward rates; see Shiller (1990). For a discussion of the use of forward rates as indicators of inflation expectations, see Sharpe (1997). **Rates on 3-Month Eurodollar Futures and Rates on Selected Federal Funds Futures Contracts** trace through time the yield on three specific contracts. **Rates on Federal Funds Futures on Selected Dates** displays a single day's snapshot of yields for contracts expiring in the months shown on the horizontal axis. **Inflation-Indexed Treasury Securities and Yield Spreads** are those plotted on page 3. **Inflation-Indexed 10-Year Government Notes** shows the yield of an inflation-indexed note that is scheduled to mature in approximately (but not greater than) 10 years. The current French note has a maturity date of 7/25/2015, the current U.K. note has a maturity date of 8/16/2013, and the current U.S. note has a maturity date of 1/15/2016. **Inflation-Indexed Treasury Yield Spreads and Inflation-Indexed 10-Year Government Yield Spreads** equal the difference between the yields on the most recently issued inflation-indexed securities and the unadjusted security yields of similar maturity.

Page 12: **Velocity** (for MZM and M2) equals the ratio of GDP, measured in current dollars, to the level of the monetary aggregate. **MZM and M2 Own Rates** are weighted averages of the rates received by households and firms on the assets included in the aggregates. Prior to 1982, the 3-month T-bill rates are secondary market yields. From 1982 forward, rates are 3-month constant maturity yields.

Page 13: **Real Gross Domestic Product** is GDP as measured in chained 2000 dollars. The **Gross Domestic Product Price Index** is the implicit price deflator for GDP, which is defined by the Bureau of Economic Analysis, U.S. Department of Commerce, as the ratio of GDP measured in current dollars to GDP measured in chained 2000 dollars.

Page 14: **Investment Securities** are all securities held by commercial banks in both investment and trading accounts.

Page 15: **Inflation Rate Differentials** are the differences between the foreign consumer price inflation rates and year-over-year changes in the U.S. all-items Consumer Price Index.

Page 17: **Treasury Yields** are Treasury constant maturities as reported in the Board of Governors of the Federal Reserve System's H.15 release.

Sources

Agence France Trésor: French note yields.

Bank of Canada: Canadian note yields.

Bank of England: U.K. note yields.

Board of Governors of the Federal Reserve System:

Monetary aggregates and components: H.6 release. Bank credit and components: H.8 release. Consumer credit: G.19 release. Required reserves, excess reserves, clearing balance contracts, and discount window borrowing: H.4.1 and H.3 releases. Interest rates: H.15 release. Nonfinancial commercial paper: Board of Governors website. Nonfinancial debt: Z.1 release. M2 own rate.

Bureau of Economic Analysis: GDP.

Bureau of Labor Statistics: CPI.

Chicago Board of Trade: Federal funds futures contract.

Chicago Mercantile Exchange: Eurodollar futures.

Congressional Budget Office: Potential real GDP.

Federal Reserve Bank of Philadelphia: Survey of Professional Forecasters inflation expectations.

Federal Reserve Bank of St. Louis: Adjusted monetary base and adjusted reserves, monetary services index, MZM own rate, one-year forward rates.

Organization for Economic Cooperation and Development: International interest and inflation rates.

Standard & Poor's: Stock price-earnings ratio, stock price composite index.

University of Michigan Survey Research Center: Median expected price change.

U.S. Department of the Treasury: U.S. security yields.

References

Anderson, Richard G. and Robert H. Rasche (1996a). "A Revised Measure of the St. Louis Adjusted Monetary Base." Federal Reserve Bank of St. Louis Review, March/April, 78(2), pp. 3-13.*

____ and ____ (1996b). "Measuring the Adjusted Monetary Base in an Era of Financial Change." Federal Reserve Bank of St. Louis Review, November/December, 78(6), pp. 3-37.*

____ and ____ (2001). "Retail Sweep Programs and Bank Reserves, 1994-1999." Federal Reserve Bank of St. Louis Review, January/February, 83(1), pp. 51-72.*

____ and ____ , with Jeffrey Loesel (2003). "A Reconstruction of the Federal Reserve Bank of St. Louis Adjusted Monetary Base and Reserves." Federal Reserve Bank of St. Louis Review, September/October, 85(5), pp. 39-70.*

____ , Barry E. Jones and Travis D. Nesmith (1997). "Special Report: The Monetary Services Indexes Project of the Federal Reserve Bank of St. Louis." Federal Reserve Bank of St. Louis Review, January/February, 79(1), pp. 31-82.*

McCallum, Bennett T. (1988). "Robustness Properties of a Monetary Policy Rule." Carnegie-Rochester Conference Series on Public Policy, vol. 29, pp. 173-204.

____ (1993). "Specification and Analysis of a Monetary Policy Rule for Japan." Bank of Japan Monetary and Economic Studies, November, pp. 1-45.

Motley, Brian (1988). "Should M2 Be Redefined?" Federal Reserve Bank of San Francisco Economic Review, Winter, pp. 33-51.

Nelson, Charles R. and Andrew F. Siegel (1987). "Parsimonious Modeling of Yield Curves." Journal of Business, October, pp. 473-89.

Poole, William (1991). Statement before the Subcommittee on Domestic Monetary Policy of the Committee on Banking, Finance and Urban Affairs, U.S. House of Representatives, November 6, 1991. Government Printing Office, Serial No. 102-82.

Sharpe, William F. (1997). Macro-Investment Analysis, on-line textbook available at www.stanford.edu/~wsharp/mia/mia.htm.

Shiller, Robert (1990). "The Term Structure of Interest Rates." Handbook of Monetary Economics, vol. 1, B. Friedman and F. Hahn, eds., pp. 627-722.

Taylor, John B. (1993). "Discretion versus Policy Rules in Practice." Carnegie-Rochester Conference Series on Public Policy, vol. 39, pp. 195-214.

Note: *Available on the Internet at research.stlouisfed.org/publications/review/.

The Taylor Principle and Recent FOMC Policy

There has been a good deal of discussion in the recent literature in monetary economics concerning the *Taylor principle*, named after John B. Taylor, professor of economics at Stanford University. In its broadest form, the principle is that a good monetary policy can be characterized by a target federal funds interest rate that moves more than one-for-one with inflation.¹ According to a number of theories, such a policy maintains a desirable equilibrium for the economy in which inflation remains close to a target level, while failure to meet the principle may allow inflation, as well as other key variables, to deviate far away from target. How has the FOMC been faring over the past several years according to the criterion of the Taylor principle?

One simple way to consider this question is to compare movements in the FOMC's target federal funds rate to movements in inflation. The chart shows the effective federal funds rate for each month plotted along with the core personal consumption expenditures (core PCE) inflation rate, as measured from one year earlier. This measure of inflation excludes volatile food and energy prices, is widely cited in Federal Reserve commentary, and is less volatile than month-to-month readings. The federal funds rate has been rising consistently since June 2004, when the current Fed tightening cycle began. The core PCE inflation rate, on the other hand, was rising before June 2004, was generally flat over the following 18 months, and has recently been rising again.

If the Taylor principle holds, the target federal funds rate should move more than one-for-one with the inflation rate. During the first half of 2004, this was definitely not happening. The inflation rate was increasing, but the federal funds rate was in fact not changing at all, and so we conclude that the Taylor principle was not being followed during this period. Federal Reserve commentary at the time indicated that many on the FOMC were content to allow the inflation rate to rise during this period. This period is probably unusual since inflation was especially low.

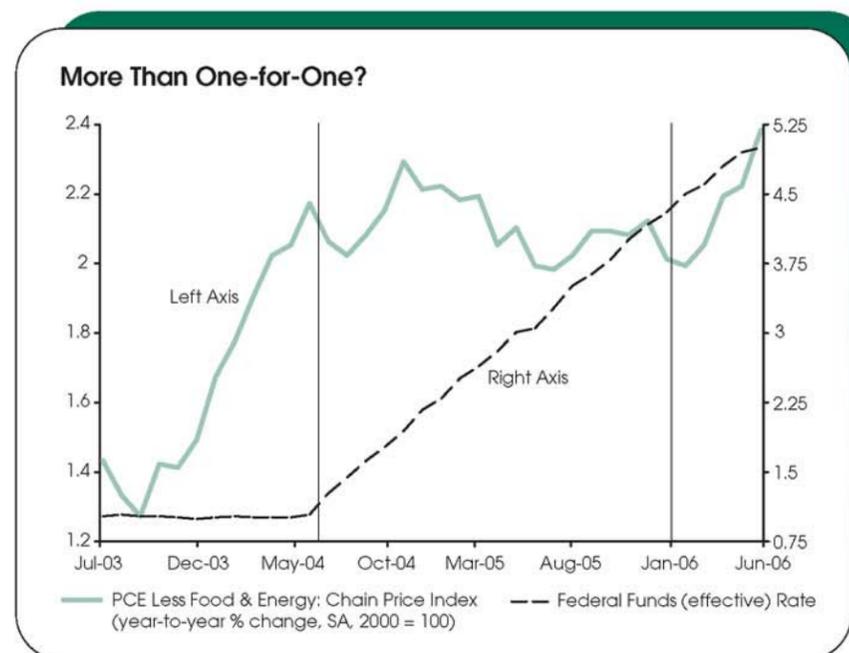
During the period from July 2004 to the beginning of 2006, just the opposite pattern has held, according to these data. The core PCE inflation rate barely changed, on average, over this period. Indeed, the core PCE inflation rate

was about 2.1 percent in July 2004 and was nearly identical, about 2.0 percent, in January 2006. Yet the federal funds rate was consistently increasing during this period. The Taylor principle was being met; in fact, many financial market participants expected the FOMC to pause in raising the federal funds rate target during the first half of 2006, in part because inflation remained close to 2.0 percent.

Yet when 2006 arrived, inflation began increasing once again. The core PCE inflation rate was about 2.4 percent in June, up approximately 40 basis points from February 2006. Is the Taylor principle still being met? It has become a closer call. The federal funds rate in February averaged about 4.5 percent, and by June it averaged nearly 5.0 percent, an increase of 50 basis points. Thus, according to these measures the Federal Reserve responded to increases in inflation with a coefficient of about 1.25 during this period, still enough to maintain the Taylor principle. But it is possible that continued increases in inflation coupled with a pause in the Fed's tightening cycle may cause the FOMC to violate the Taylor principle going forward.

—James B. Bullard

¹ For a more detailed discussion of the Taylor principle, see Michael Woodford, "The Taylor Rule and Optimal Monetary Policy," *American Economic Review, Papers and Proceedings*, May 2001, 91(2), pp. 232-37.



Views expressed do not necessarily reflect official positions of the Federal Reserve System.

Page	
3	Monetary and Financial Indicators at a Glance
4	Monetary Aggregates and Their Components
6	Monetary Aggregates: Monthly Growth
7	Reserves Markets and Short-Term Credit Flows
8	Measures of Expected Inflation
9	Interest Rates
10	Policy-Based Inflation Indicators
11	Implied Forward Rates, Futures Contracts, and Inflation-Indexed Securities
12	Velocity, Gross Domestic Product, and M2
14	Bank Credit
15	Stock Market Index and Foreign Inflation and Interest Rates
16	Reference Tables
18	Definitions, Notes, and Sources

Conventions used in this publication:

1. Unless otherwise indicated, data are monthly.
2. Shaded areas indicate recessions, as determined by the National Bureau of Economic Research.
3. *Percent change at an annual rate* is the simple, not compounded, monthly percent change multiplied by 12. For example, using consecutive months, the percent change at an annual rate in x between month $t-1$ and the current month t is: $[(x_t/x_{t-1})-1] \times 1200$. Note that this differs from *National Economic Trends*. In that publication, monthly percent changes are compounded and expressed as annual growth rates.
4. The *percent change from year ago* refers to the percent change from the same period in the previous year. For example, the percent change from year ago in x between month $t-12$ and the current month t is: $[(x_t/x_{t-12})-1] \times 100$.

We welcome your comments addressed to:

Editor, *Monetary Trends*
 Research Division
 Federal Reserve Bank of St. Louis
 P.O. Box 442
 St. Louis, MO 63166-0442

On March 23, 2006, the Board of Governors of the Federal Reserve System ceased the publication of the M3 monetary aggregate. It also ceased publishing the following components: large-denomination time deposits, RPs, and eurodollars.

or to:

stlsFRED@stls.frb.org

Definitions

M1: The sum of currency held outside the vaults of depository institutions, Federal Reserve Banks, and the U.S. Treasury; travelers checks; and demand and other checkable deposits issued by financial institutions (except demand deposits due to the Treasury and depository institutions), minus cash items in process of collection and Federal Reserve float.

MZM (money, zero maturity): M2 minus small-denomination time deposits, plus institutional money market mutual funds (that is, those included in M3 but excluded from M2). The label MZM was coined by William Poole (1991); the aggregate itself was proposed earlier by Motley (1988).

M2: M1 plus savings deposits (including money market deposit accounts) and small-denomination (under \$100,000) time deposits issued by financial institutions; and shares in retail money market mutual funds (funds with initial investments under \$50,000), net of retirement accounts.

M3: M2 plus large-denomination (\$100,000 or more) time deposits; repurchase agreements issued by depository institutions; Eurodollar deposits, specifically, dollar-denominated deposits due to nonbank U.S. addresses held at foreign offices of U.S. banks worldwide and all banking offices in Canada and the United Kingdom; and institutional money market mutual funds (funds with initial investments of \$50,000 or more).

Bank Credit: All loans, leases, and securities held by commercial banks.

Domestic Nonfinancial Debt: Total credit market liabilities of the U.S. Treasury, federally sponsored agencies, state and local governments, households, and nonfinancial firms. End-of-period basis.

Adjusted Monetary Base: The sum of currency in circulation outside Federal Reserve Banks and the U.S. Treasury, deposits of depository financial institutions at Federal Reserve Banks, and an adjustment for the effects of changes in statutory reserve requirements on the quantity of base money held by depositories. This series is a spliced chain index; see Anderson and Rasche (1996a,b, 2001, 2003).

Adjusted Reserves: The sum of vault cash and Federal Reserve Bank deposits held by depository institutions and an adjustment for the effects of changes in statutory reserve requirements on the quantity of base money held by depositories. This spliced chain index is numerically larger than the Board of Governors' measure, which excludes vault cash not used to satisfy statutory reserve requirements and Federal Reserve Bank deposits used to satisfy required clearing balance contracts; see Anderson and Rasche (1996a, 2001, 2003).

Monetary Services Index: An index that measures the flow of monetary services received by households and firms from their holdings of liquid assets; see Anderson, Jones, and Nesmith (1997). Indexes are shown for the assets included in M2, with additional data at research.stlouisfed.org/msi/index.html.

Note: M1, M2, M3, Bank Credit, and Domestic Nonfinancial Debt are constructed and published by the Board of Governors of the Federal Reserve System. For details, see *Statistical Supplement to the Federal Reserve Bulletin*, tables 1.21 and 1.26. MZM, Adjusted Monetary Base, Adjusted Reserves, and Monetary Services Index are constructed and published by the Research Division of the Federal Reserve Bank of St. Louis.

Notes

Page 3: Readers are cautioned that, since early 1994, the level and growth of M1 have been depressed by retail sweep programs that reclassify transactions deposits (demand deposits and other checkable deposits) as savings deposits overnight, thereby reducing banks' required reserves; see Anderson and Rasche (2001) and research.stlouisfed.org/aggreg/swdata.html. **Primary Credit Rate, Discount Rate, and Intended Federal Funds Rate** shown in the chart **Reserve Market Rates** are plotted as of the date of the change, while the **Effective Federal Funds Rate** is plotted as of the end of the month. Interest rates in the table are monthly averages from the Board of Governors H.15 Statistical Release. The **Treasury Yield Curve** and **Real Treasury Yield Curve** show constant maturity yields calculated by the U.S. Treasury for securities 5, 7, 10, and 20 years to maturity. **Inflation-Indexed Treasury Yield Spreads** are a

measure of inflation compensation at those horizons, and it is simply the nominal constant maturity yield less the real constant maturity yield. Daily data and descriptions are available at research.stlouisfed.org/fred2/. See also *Statistical Supplement to the Federal Reserve Bulletin*, table 1.35. The 30-year constant maturity series was discontinued by the Treasury as of February 18, 2002.

Page 5: **Checkable Deposits** is the sum of demand and other checkable deposits. **Savings Deposits** is the sum of money market deposit accounts and passbook and statement savings. **Time Deposits** have a minimum initial maturity of 7 days. **Large Time Deposits** are deposits of \$100,000 or more. **Retail and Institutional Money Market Mutual Funds** are as included in M2 and the non-M2 component of M3, respectively.

Page 7: **Excess Reserves plus RCB (Required Clearing Balance) Contracts** equals the amount of deposits at Federal Reserve Banks held by depository institutions but not applied to satisfy statutory reserve requirements. (This measure excludes the vault cash held by depository institutions that is not applied to satisfy statutory reserve requirements.) **Consumer Credit** includes most short- and intermediate-term credit extended to individuals. See *Statistical Supplement to the Federal Reserve Bulletin*, table 1.55.

Page 8: **Inflation Expectations** measures include the quarterly Federal Reserve Bank of Philadelphia *Survey of Professional Forecasters*, the monthly University of Michigan Survey Research Center's *Surveys of Consumers*, and the annual Federal Open Market Committee (FOMC) range as reported to the Congress in the February testimony that accompanies the Monetary Policy Report to the Congress. Beginning February 2000, the FOMC began using the personal consumption expenditures (PCE) price index to report its inflation range; the FOMC then switched to the PCE chain-type price index excluding food and energy prices ("core") beginning July 2004. Accordingly, neither are shown on this graph. **CPI Inflation** is the percentage change from a year ago in the consumer price index for all urban consumers. **Real Interest Rates** are ex post measures, equal to nominal rates minus CPI inflation.

Page 9: **FOMC Intended Federal Funds Rate** is the level (or midpoint of the range, if applicable) of the federal funds rate that the staff of the FOMC expected to be consistent with the desired degree of pressure on bank reserve positions. In recent years, the FOMC has set an explicit target for the federal funds rate.

Page 10: **Federal Funds Rate and Inflation Targets** shows the observed federal funds rate, quarterly, and the level of the funds rate implied by applying Taylor's (1993) equation

$$f_t^* = 2.5 + \pi_{t-1} + (\pi_{t-1} - \pi^*)/2 + 100 \times (y_{t-1} - y_{t-1}^P)/2$$

to five alternative target inflation rates, $\pi^* = 0, 1, 2, 3, 4$ percent, where f_t^* is the implied federal funds rate, π_{t-1} is the previous period's inflation rate (PCE) measured on a year-over-year basis, y_{t-1} is the log of the previous period's level of real gross domestic product (GDP), and y_{t-1}^P is the log of an estimate of the previous period's level of potential output. **Potential Real GDP** is as estimated by the Congressional Budget Office.

Monetary Base Growth and Inflation Targets shows the quarterly growth of the adjusted monetary base (modified to include an estimate of the effect of sweep programs) implied by applying McCallum's (1988, 1993) equation

$$\Delta MB_t^* = \pi^* + (10\text{-year moving average growth of real GDP}) - (4\text{-year moving average of base velocity growth})$$

to five alternative target inflation rates, $\pi^* = 0, 1, 2, 3, 4$ percent, where ΔMB_t^* is the implied growth rate of the adjusted monetary base. The 10-year moving average growth of real GDP for a quarter t is calculated as the average quarterly growth during the previous 40 quarters, at an annual rate, by the formula $((y_t - y_{t-40})/40) \times 400$, where y_t is the log of real GDP. The 4-year moving average of base velocity growth is calculated similarly. To adjust the monetary base for the effect of retail-deposit sweep programs, we add to the monetary base an amount equal to 10 percent of the total amount swept, as estimated by the Federal Reserve Board staff. These estimates are imprecise, at best. Sweep program data are found at research.stlouisfed.org/aggreg/swdata.html.

		M1	MZM	M2	M3*
Percent change at an annual rate					
2001		3.33	15.80	8.73	11.49
2002		4.91	12.76	7.41	7.98
2003		6.49	7.41	6.96	6.40
2004		5.58	4.01	4.62	5.09
2005		2.01	2.24	4.34	5.97

2004	1	5.89	2.64	3.29	5.43
	2	6.24	9.36	8.60	9.74
	3	4.12	1.97	3.76	4.04
	4	4.85	2.05	5.11	3.42
2005	1	0.24	0.85	3.78	5.63
	2	0.33	0.36	2.61	5.98
	3	0.78	3.54	4.50	7.81
	4	-0.30	4.74	5.03	9.29
2006	1	2.39	5.40	6.26	
	2	1.06	2.61	3.23	

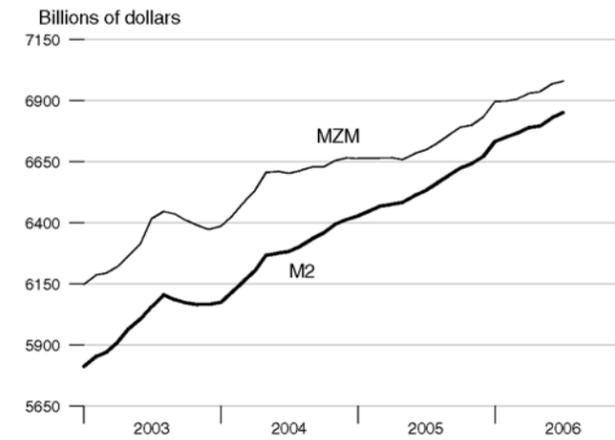
2004	Jul	2.01	-1.43	1.33	0.90
	Aug	9.64	2.23	4.23	4.10
	Sep	5.66	2.64	5.70	4.83
	Oct	0.28	-0.17	4.38	0.96
	Nov	11.76	4.77	6.74	4.58
	Dec	-1.73	1.94	3.56	4.84

2005	Jan	-4.46	-0.46	2.90	6.90
	Feb	2.16	0.02	3.85	5.61
	Mar	3.05	0.37	3.69	4.25
2005	Apr	-5.71	0.22	1.31	6.97
	May	4.12	-1.20	1.62	5.50
	Jun	3.71	4.22	5.03	7.48
	Jul	-4.93	2.82	3.87	4.58
	Aug	6.66	5.07	5.72	12.56
	Sep	-2.98	5.92	5.62	10.48

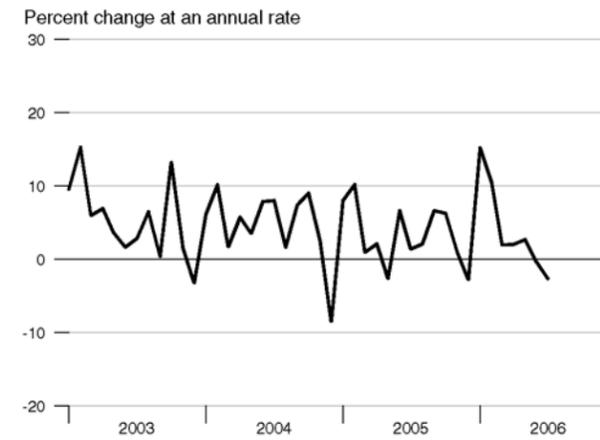
2005	Oct	0.37	5.48	5.36	9.79
	Nov	0.61	1.73	3.50	5.57
	Dec	-5.63	5.74	5.05	8.99
2006	Jan	11.82	10.99	11.02	10.49
	Feb	-5.51	0.47	3.38	6.55
	Mar	7.88	1.37	2.69	
	Apr	4.94	4.11	4.00	
	May	2.55	1.26	1.17	
	Jun	-20.44	5.41	5.90	
	Jul	2.24	1.94	3.83	

*See table of contents for changes to the series.

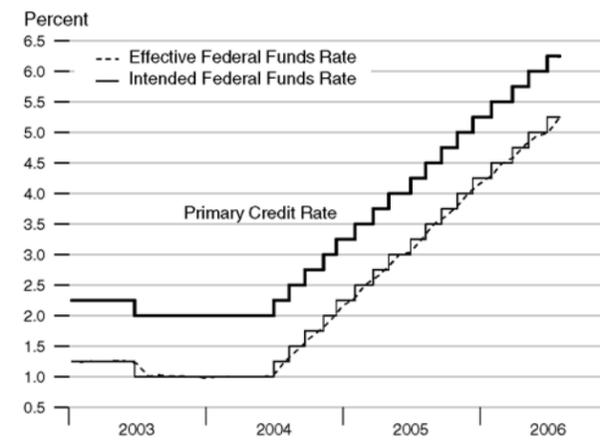
M2 and MZM



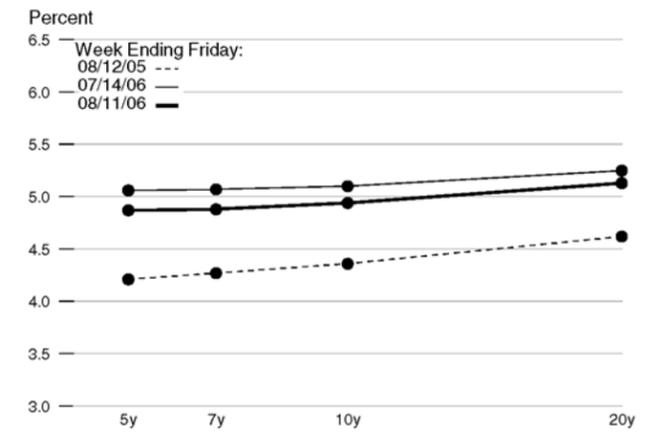
Adjusted Monetary Base



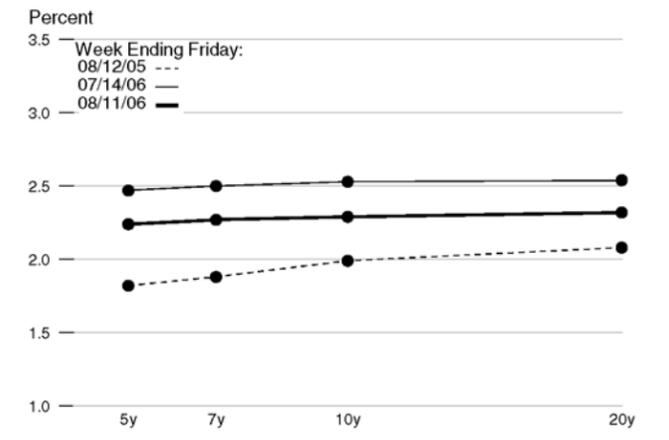
Reserve Market Rates



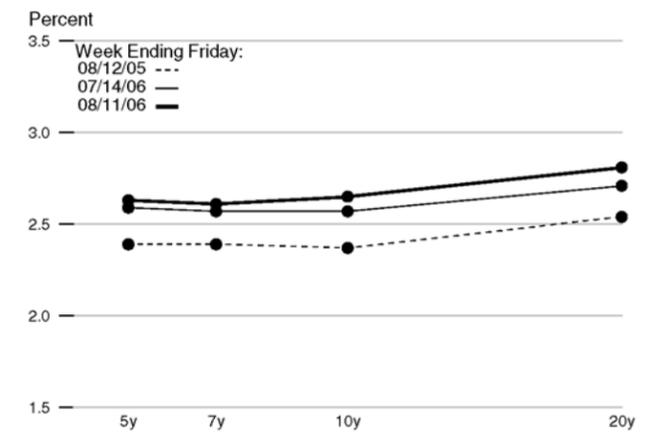
Treasury Yield Curve



Real Treasury Yield Curve

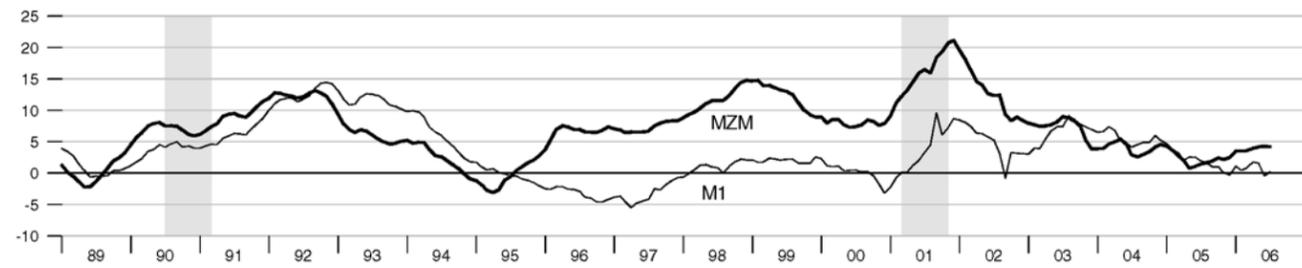


Inflation-Indexed Treasury Yield Spreads



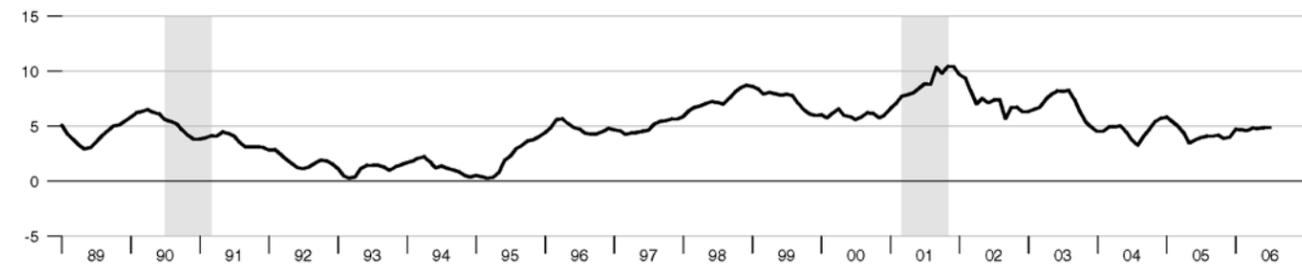
MZM and M1

Percent change from year ago



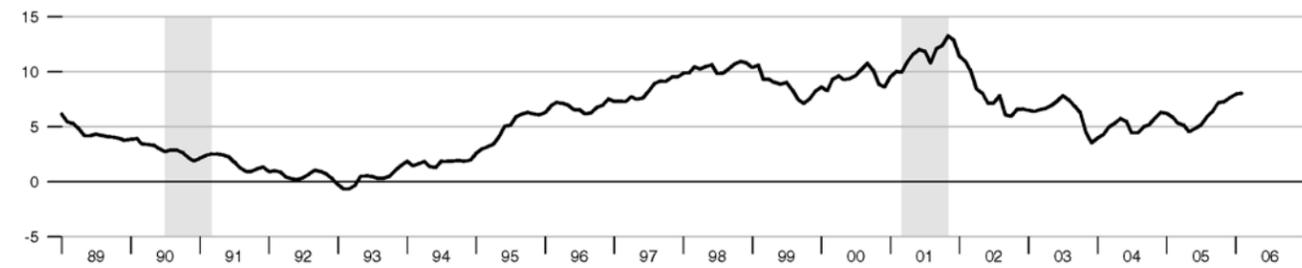
M2

Percent change from year ago



M3*

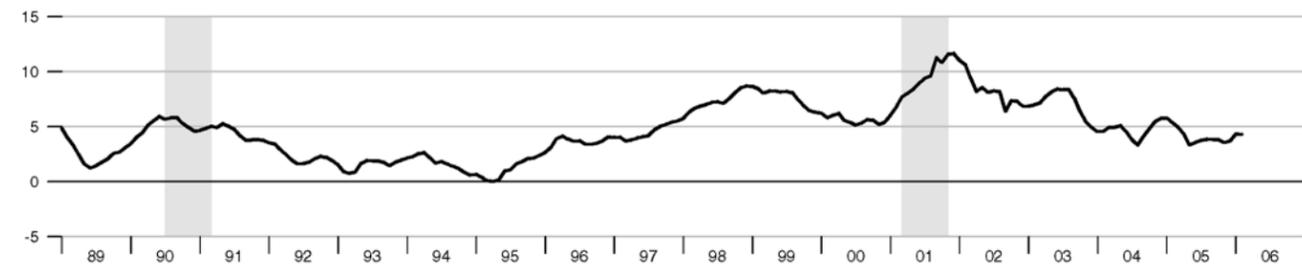
Percent change from year ago



*See table of contents for changes to the series.

Monetary Services Index - M2**

Percent change from year ago



**We will not update the MSI series until we revise the code to accommodate the discontinuation of M3.

		Federal Funds Rate	Primary Credit Rate	Prime Rate	3-mo CDs	Treasury Yields			Corporate Aaa Bonds	S & L Aaa Bonds	Conventional Mortgage
						3-mo	3-yr	10-yr			
2001		3.89		6.92	3.69	3.47	4.08	5.02	7.08	5.01	6.97
2002		1.67		4.68	1.73	1.63	3.10	4.61	6.49	4.87	6.54
2003		1.13	2.11	4.12	1.15	1.03	2.11	4.02	5.67	4.52	5.82
2004		1.35	2.34	4.34	1.56	1.40	2.78	4.27	5.63	4.50	5.84
2005		3.21	4.19	6.19	3.51	3.21	3.93	4.29	5.23	4.28	5.86
2004	1	1.00	2.00	4.00	1.05	0.93	2.17	4.02	5.45	4.26	5.61
	2	1.01	2.00	4.00	1.25	1.10	2.98	4.60	5.93	4.82	6.13
	3	1.43	2.42	4.42	1.70	1.51	2.92	4.30	5.64	4.54	5.89
	4	1.95	2.94	4.94	2.25	2.04	3.05	4.17	5.48	4.39	5.73
2005	1	2.47	3.44	5.44	2.78	2.58	3.61	4.30	5.32	4.23	5.76
	2	2.94	3.91	5.91	3.23	2.93	3.73	4.16	5.15	4.15	5.72
	3	3.46	4.43	6.43	3.74	3.43	3.98	4.21	5.09	4.28	5.76
	4	3.98	4.97	6.97	4.30	3.91	4.37	4.49	5.38	4.45	6.22
2006	1	4.46	5.43	7.43	4.72	4.50	4.58	4.57	5.39	4.29	6.24
	2	4.91	5.90	7.90	5.18	4.83	4.98	5.07	5.89	4.36	6.60
2004	Jul	1.26	2.25	4.25	1.57	1.36	3.05	4.50	5.82	4.71	6.06
	Aug	1.43	2.43	4.43	1.68	1.50	2.88	4.28	5.65	4.52	5.87
	Sep	1.61	2.58	4.58	1.86	1.68	2.83	4.13	5.46	4.40	5.75
	Oct	1.76	2.75	4.75	2.04	1.79	2.85	4.10	5.47	4.38	5.72
	Nov	1.93	2.93	4.93	2.26	2.11	3.09	4.19	5.52	4.45	5.73
	Dec	2.16	3.15	5.15	2.45	2.22	3.21	4.23	5.47	4.35	5.75
2005	Jan	2.28	3.25	5.25	2.61	2.37	3.39	4.22	5.36	4.24	5.71
	Feb	2.50	3.49	5.49	2.77	2.58	3.54	4.17	5.20	4.16	5.63
	Mar	2.63	3.58	5.58	2.97	2.80	3.91	4.50	5.40	4.29	5.93
	Apr	2.79	3.75	5.75	3.09	2.84	3.79	4.34	5.33	4.18	5.86
	May	3.00	3.98	5.98	3.22	2.90	3.72	4.14	5.15	4.20	5.72
	Jun	3.04	4.01	6.01	3.38	3.04	3.69	4.00	4.96	4.08	5.58
	Jul	3.26	4.25	6.25	3.57	3.29	3.91	4.18	5.06	4.18	5.70
	Aug	3.50	4.44	6.44	3.77	3.52	4.08	4.26	5.09	4.33	5.82
	Sep	3.62	4.59	6.59	3.87	3.49	3.96	4.20	5.13	4.34	5.77
	Oct	3.78	4.75	6.75	4.13	3.79	4.29	4.46	5.35	4.49	6.07
	Nov	4.00	5.00	7.00	4.31	3.97	4.43	4.54	5.42	4.42	6.33
	Dec	4.16	5.15	7.15	4.45	3.97	4.39	4.47	5.37	4.46	6.27
2006	Jan	4.29	5.26	7.26	4.56	4.34	4.35	4.42	5.29	4.27	6.15
	Feb	4.49	5.50	7.50	4.72	4.54	4.64	4.57	5.35	4.33	6.25
	Mar	4.59	5.53	7.53	4.88	4.63	4.74	4.72	5.53	4.29	6.32
	Apr	4.79	5.75	7.75	5.03	4.72	4.89	4.99	5.84	4.36	6.51
	May	4.94	5.93	7.93	5.15	4.84	4.97	5.11	5.95	4.38	6.60
	Jun	4.99	6.02	8.02	5.35	4.92	5.09	5.11	5.89	4.35	6.68
	Jul	5.24	6.25	8.25	5.46	5.08	5.07	5.09	5.85	4.42	6.76

Note: All values are given as a percent at an annual rate.

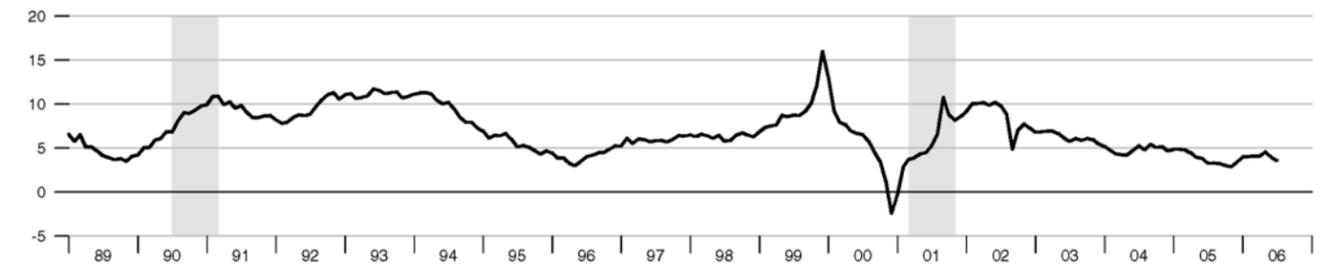
		Money Stock				Bank Credit	Adjusted		MSI M2**
		M1	MZM	M2	M3*		Monetary Base	Reserves	
2001		1140.196	5215.744	5213.352	7648.507	5345.104	641.167	86.172	271.477
2002		1196.168	5881.085	5599.599	8259.055	5598.053	697.092	88.158	294.080
2003		1273.742	6317.022	5989.196	8787.321	6121.396	740.929	93.313	315.192
2004		1344.831	6570.629	6265.925	9234.718	6598.544	776.707	96.066	329.873
2005		1371.927	6718.064	6537.799	9786.477	7240.027	806.301	96.225	343.539
2004	1	1318.426	6433.049	6117.729	9003.705	6426.484	761.428	95.033	322.050
	2	1338.981	6583.503	6249.253	9223.054	6557.100	771.146	96.603	328.960
	3	1352.759	6615.995	6308.045	9316.285	6650.004	782.783	96.802	332.111
	4	1369.157	6649.968	6388.674	9395.830	6760.586	791.470	95.825	336.371
2005	1	1369.986	6664.113	6449.092	9528.052	6989.032	798.244	96.652	339.356
	2	1371.132	6670.105	6491.159	9670.405	7160.044	802.639	96.070	341.280
	3	1373.802	6729.120	6564.215	9859.294	7350.926	808.384	96.275	344.766
	4	1372.789	6808.917	6646.729	10088.16	7460.104	815.935	95.904	348.753
2006	1	1380.979	6900.883	6750.772		7639.054	830.493	96.419	
	2	1384.648	6945.958	6805.291		7884.714	836.374	95.047	
2004	Jul	1343.435	6602.983	6283.302	9282.651	6605.758	780.465	95.692	330.885
	Aug	1354.226	6615.237	6305.449	9314.355	6637.261	781.531	96.031	331.953
	Sep	1360.617	6629.765	6335.385	9351.849	6706.993	786.354	98.682	333.496
	Oct	1360.929	6628.841	6358.534	9359.369	6721.198	792.254	97.567	334.816
	Nov	1374.264	6655.164	6394.248	9395.128	6762.234	793.883	96.832	336.675
	Dec	1372.279	6665.898	6413.240	9432.994	6798.327	788.274	93.076	337.622
2005	Jan	1367.184	6663.353	6428.717	9487.218	6892.870	793.547	95.106	338.366
	Feb	1369.649	6663.470	6449.368	9531.592	6993.442	800.277	97.806	339.355
	Mar	1373.125	6665.515	6469.192	9565.346	7080.785	800.908	97.043	340.347
	Apr	1366.589	6666.738	6476.258	9620.909	7106.083	802.316	97.424	340.663
	May	1371.286	6660.067	6485.011	9665.013	7158.750	800.589	94.581	340.941
	Jun	1375.520	6683.511	6512.208	9725.292	7215.300	805.012	96.206	342.235
	Jul	1369.874	6699.209	6533.214	9762.435	7281.095	805.957	95.514	343.275
	Aug	1377.475	6727.486	6564.344	9864.629	7361.619	807.369	95.621	344.739
	Sep	1374.058	6760.665	6595.088	9950.818	7410.064	811.826	97.691	346.285
	Oct	1374.478	6791.558	6624.538	10031.96	7429.240	816.092	97.334	347.590
	Nov	1375.173	6801.342	6643.856	10078.49	7449.667	816.780	96.854	348.603
	Dec	1368.716	6833.850	6671.792	10154.03	7501.405	814.934	93.525	350.067
2006	Jan	1382.195	6896.462	6733.085	10242.79	7558.552	825.246	96.843	353.032
	Feb	1375.852	6899.148	6752.035	10298.68	7645.660	832.436	96.866	353.943
	Mar	1384.890	6907.038	6767.197		7712.950	833.797	95.547	
	Apr	1390.591	6930.693	6789.757		7803.726	835.229	95.471	
	May	1393.544	6937.964	6796.352		7920.939	837.093	94.385	
	Jun	1369.808	6969.218	6829.765		7929.477	836.799	95.285	
	Jul	1372.367	6980.459	6851.569		7973.344	834.965	94.871	

Note: All values are given in billions of dollars. *See table of contents for changes to the series.

**We will not update the MSI series until we revise the code to accommodate the discontinuation of M3.

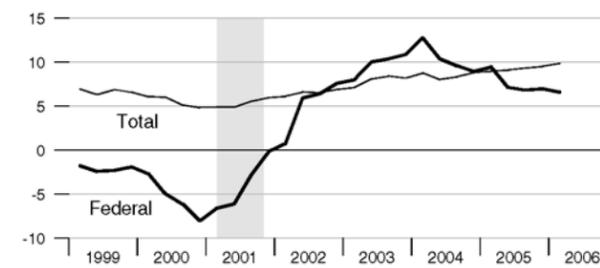
Adjusted Monetary Base

Percent change from year ago



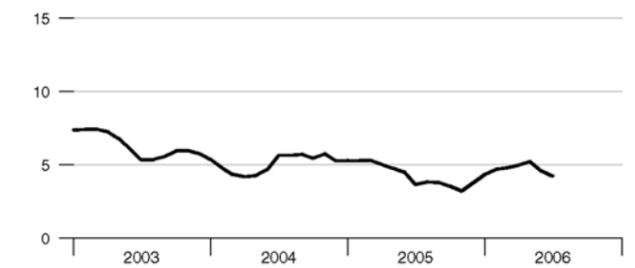
Domestic Nonfinancial Debt

Percent change from year ago



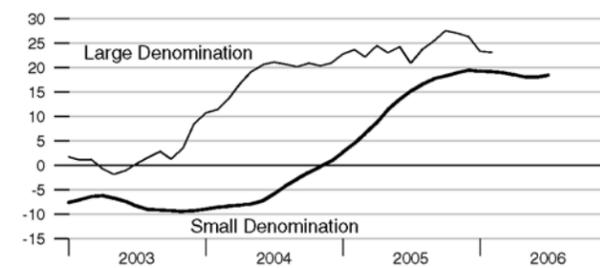
Currency Held by the Nonbank Public

Percent change from year ago



Time Deposits*

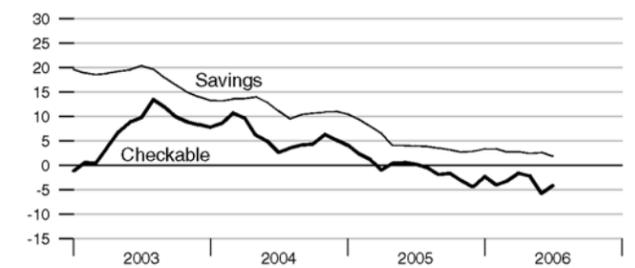
Percent change from year ago



*See table of contents for changes to the series.

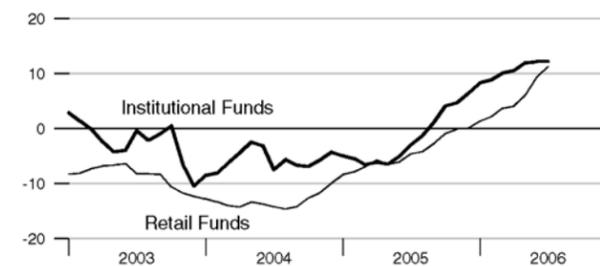
Checkable and Savings Deposits

Percent change from year ago



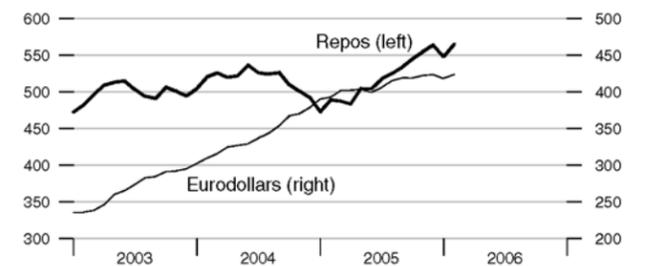
Money Market Mutual Fund Shares

Percent change from year ago



Repurchase Agreements and Eurodollars*

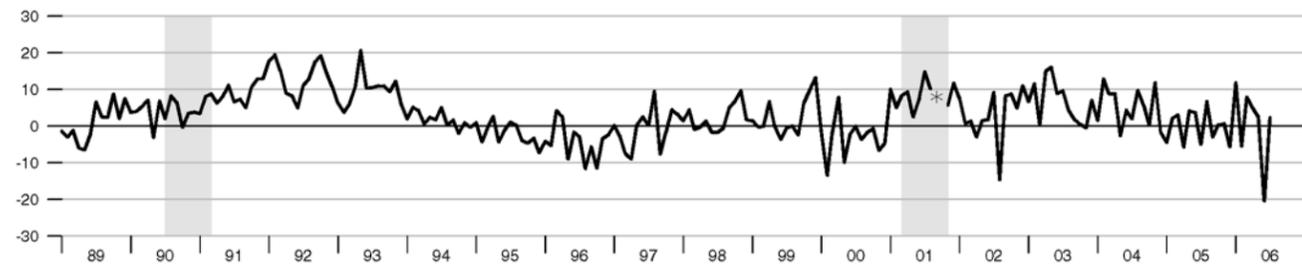
Billions of dollars



*See table of contents for changes to these series.

M1

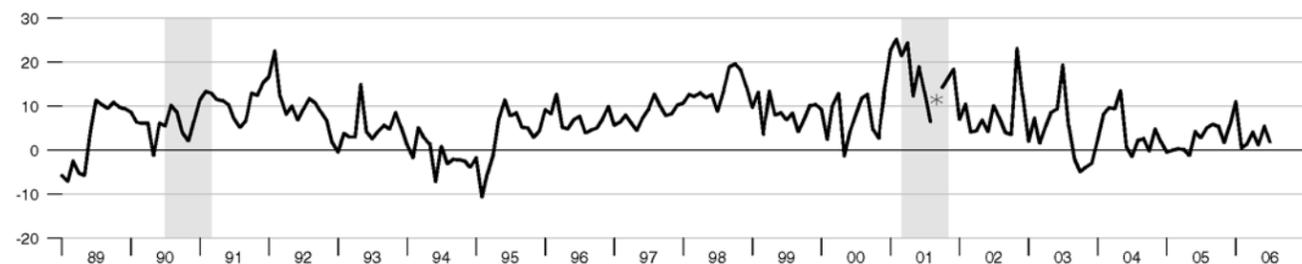
Percent change at an annual rate



*Actual values for September and October 2001 are 55.87 and -38.35 percent rate, respectively.

MZM

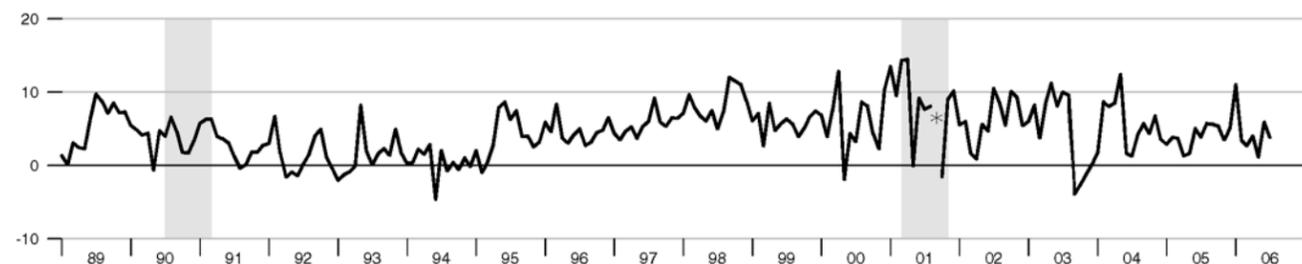
Percent change at an annual rate



*Actual value for September 2001 is 39.41 percent rate.

M2

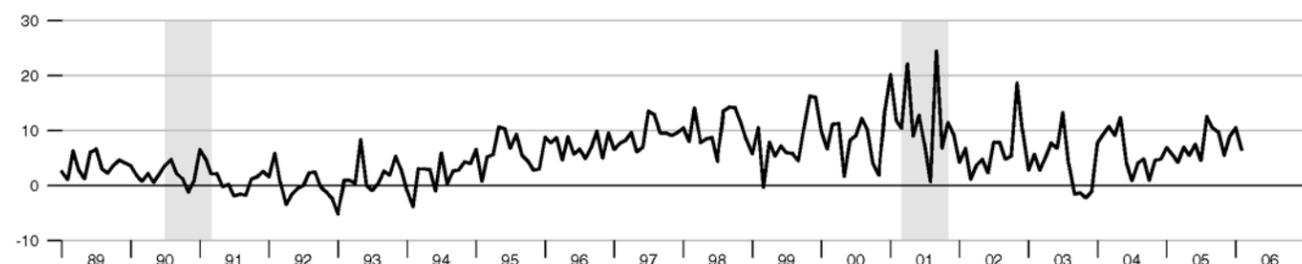
Percent change at an annual rate



*Actual value for September 2001 is 24.90 percent rate.

M3*

Percent change at an annual rate



*See table of contents for changes to the series.

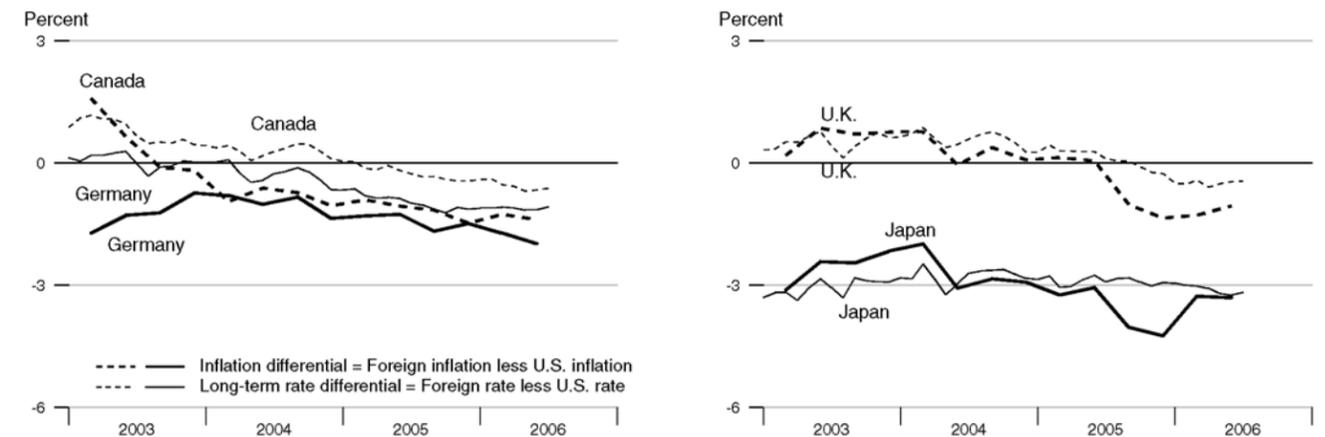
Standard & Poor's 500



Recent Inflation and Long-Term Interest Rates

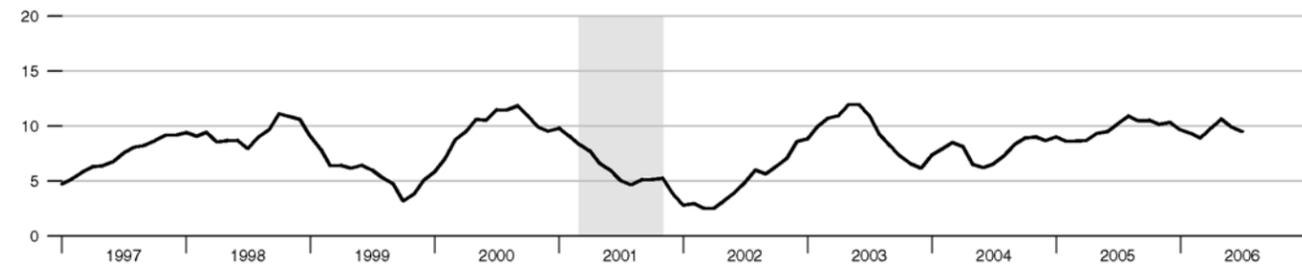
	Consumer Price Inflation Rates				Long-Term Government Bond Rates			
	Percent change from year ago				Percent			
	2005Q3	2005Q4	2006Q1	2006Q2	Apr06	May06	Jun06	Jul06
United States	3.80	3.73	3.68	3.99	4.99	5.11	5.11	5.09
Canada	2.64	2.26	2.41	2.60	4.42	4.42	4.45	4.47
France	1.90	1.65	1.79	1.92	3.96	4.00	4.01	.
Germany	2.13	2.25	1.96	2.01	3.89	3.96	3.96	4.01
Italy	2.03	2.15	2.14	2.23	4.22	4.28	4.29	4.31
Japan	-0.24	-0.51	0.41	0.68	1.91	1.91	1.87	1.91
United Kingdom	2.78	2.38	2.39	2.93	4.40	4.60	4.65	4.64

Inflation and Long-Term Interest Rate Differentials



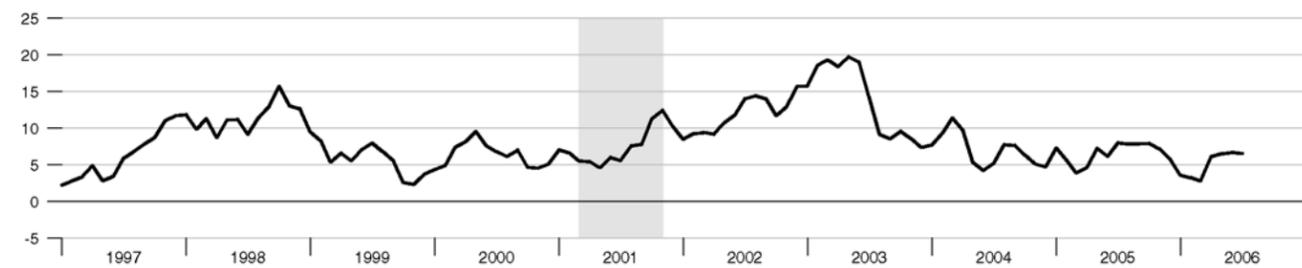
Bank Credit

Percent change from year ago



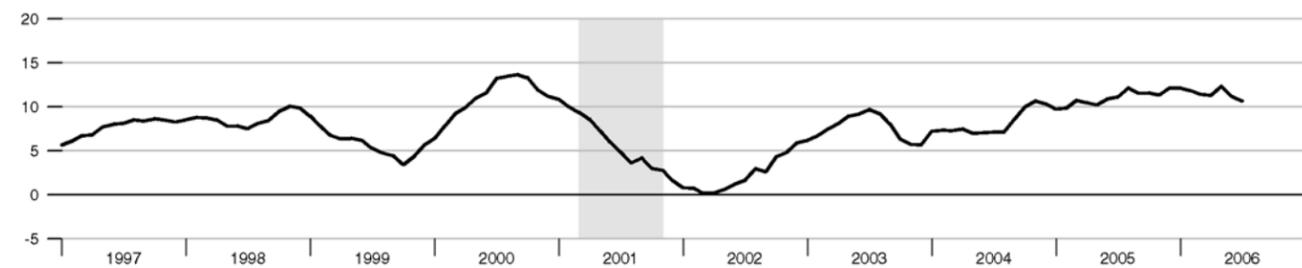
Investment Securities in Bank Credit at Commercial Banks

Percent change from year ago



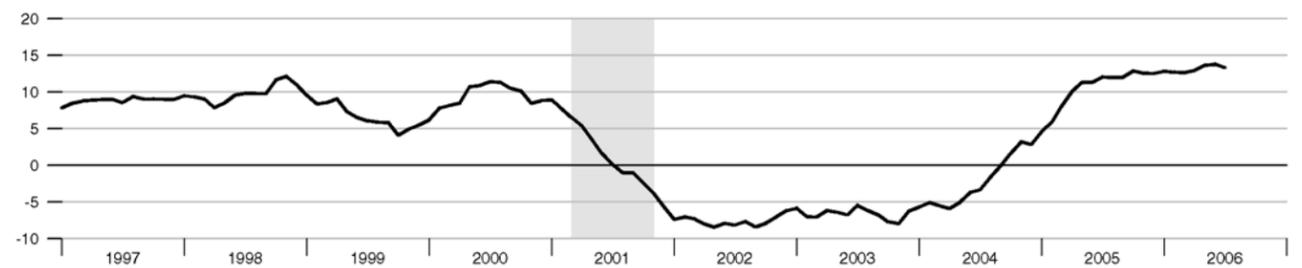
Total Loans and Leases in Bank Credit at Commercial Banks

Percent change from year ago



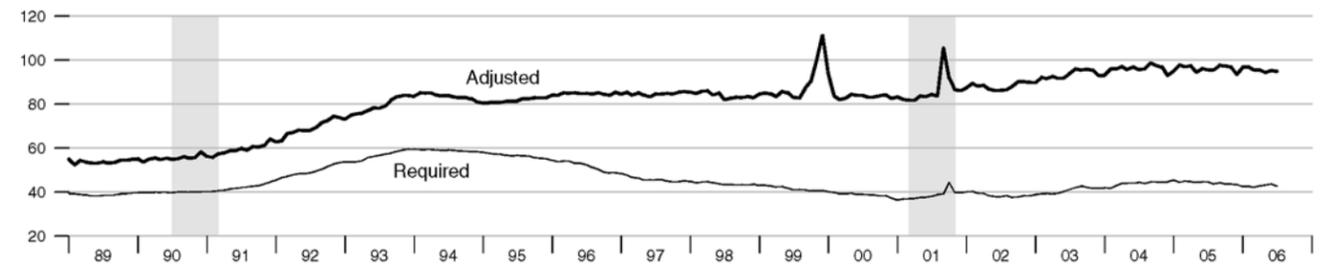
Commercial and Industrial Loans at Commercial Banks

Percent change from year ago



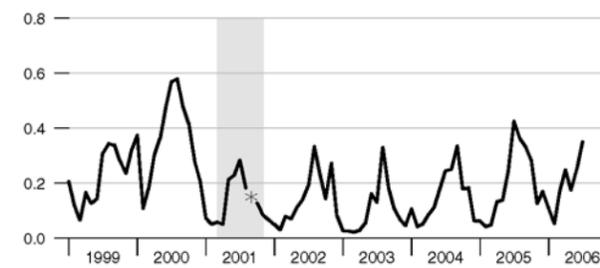
Adjusted and Required Reserves

Billions of dollars



Total Borrowings, nsa

Billions of dollars



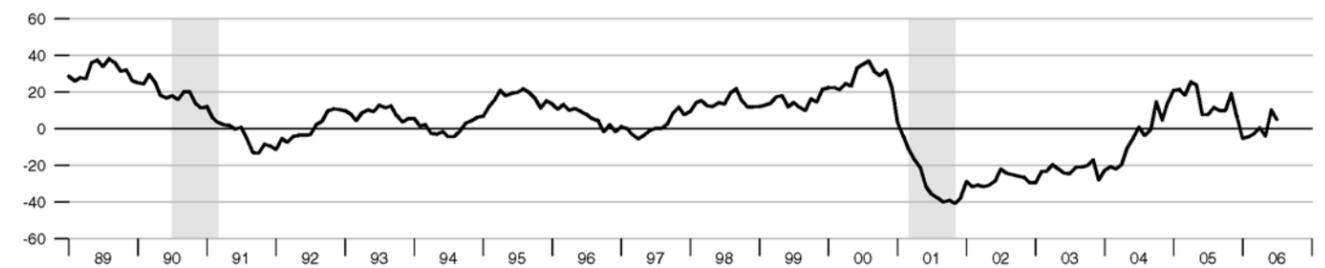
Excess Reserves plus RCB Contracts

Billions of dollars



Nonfinancial Commercial Paper

Percent change from year ago



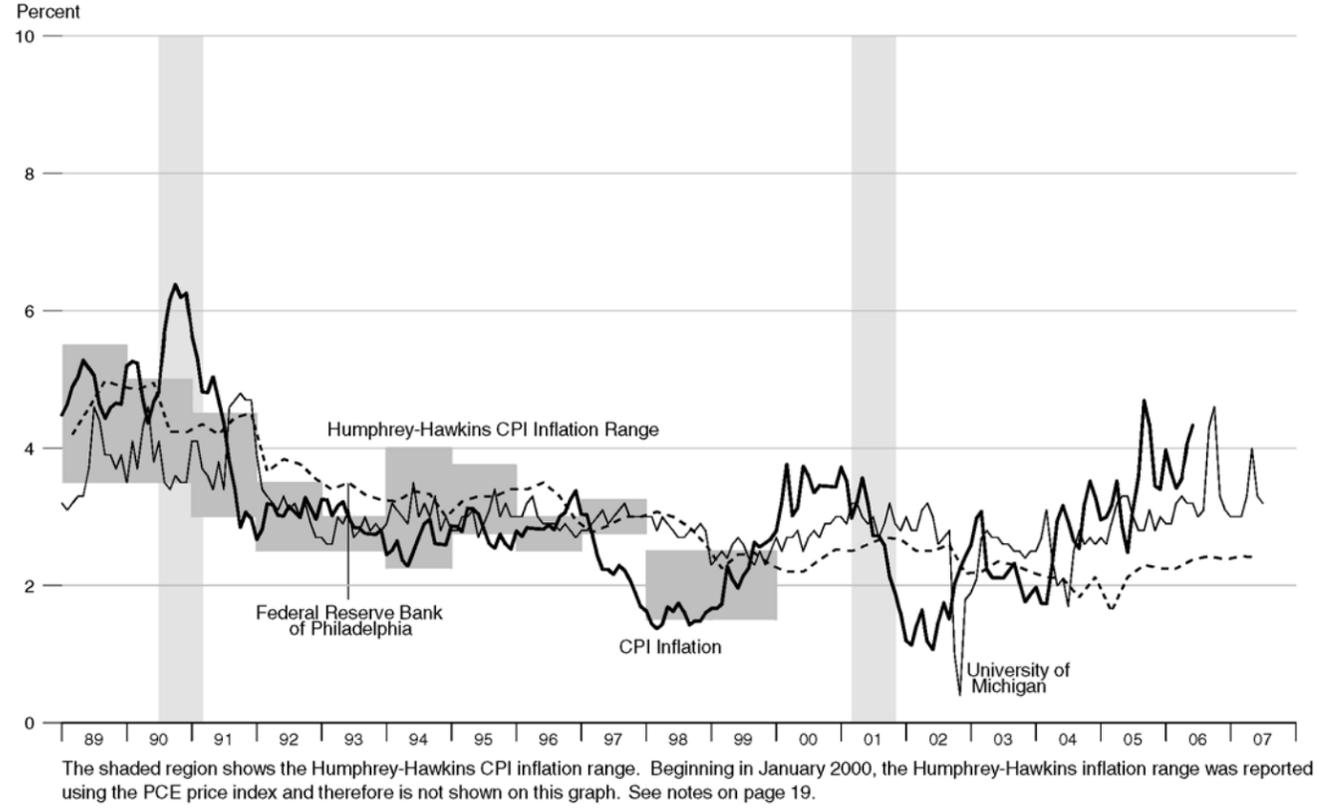
As of April 10, 2006, the Federal Reserve Board made major changes to its commercial paper calculations. For more information, please refer to <http://www.federalreserve.gov/releases/cp/about.htm>.

Consumer Credit

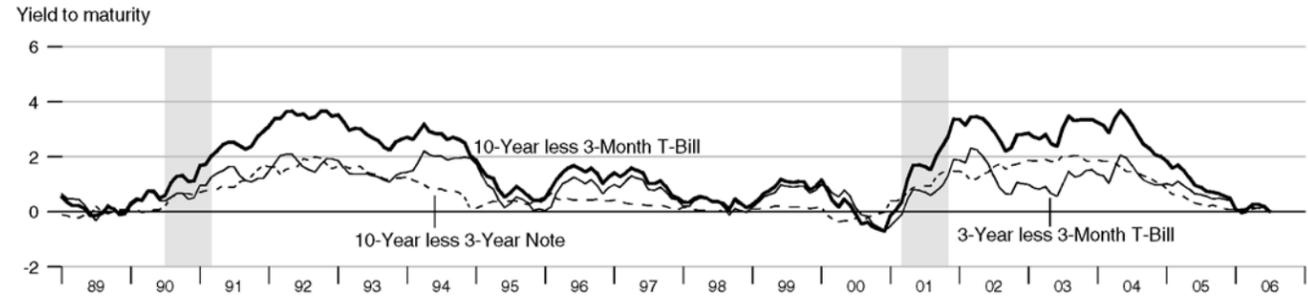
Percent change from year ago



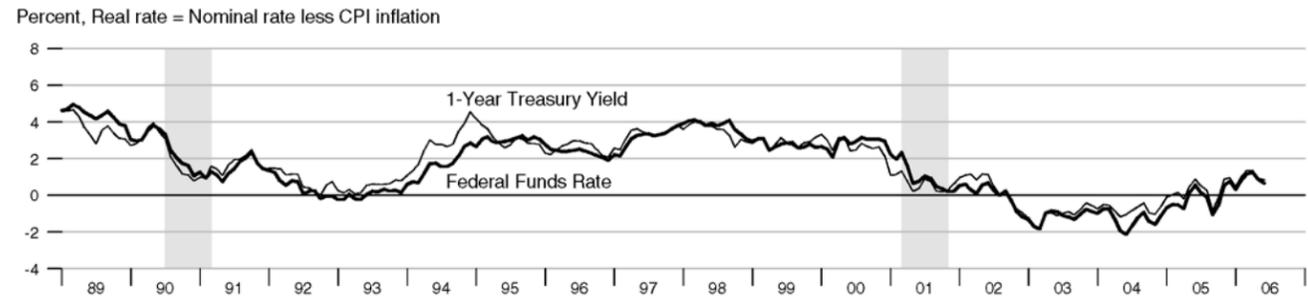
Inflation and Inflation Expectations



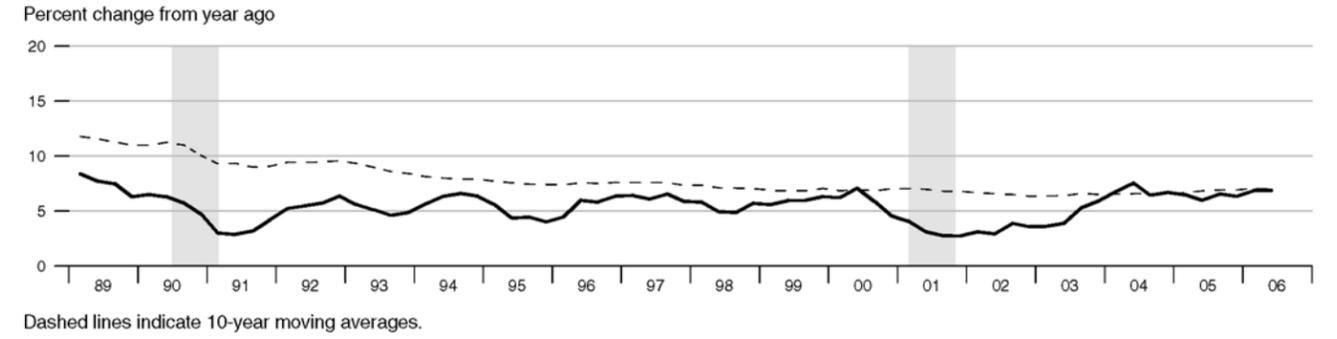
Treasury Security Yield Spreads



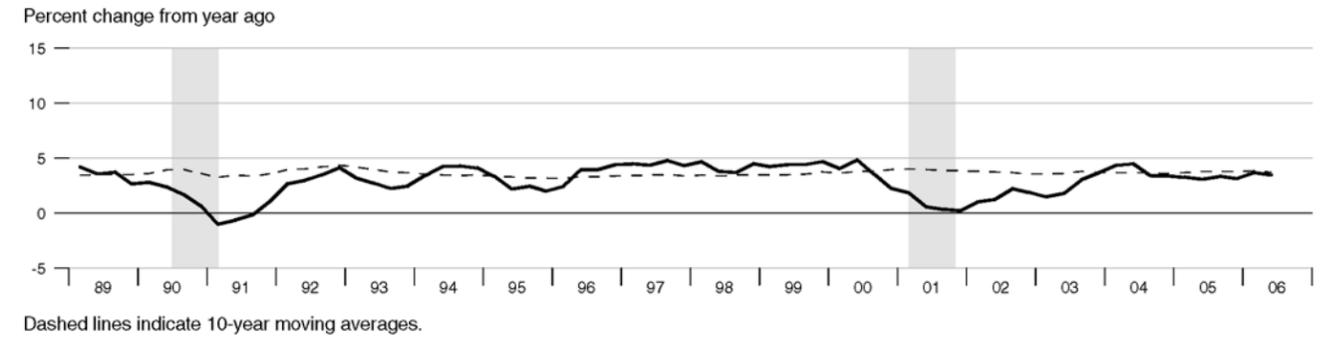
Real Interest Rates



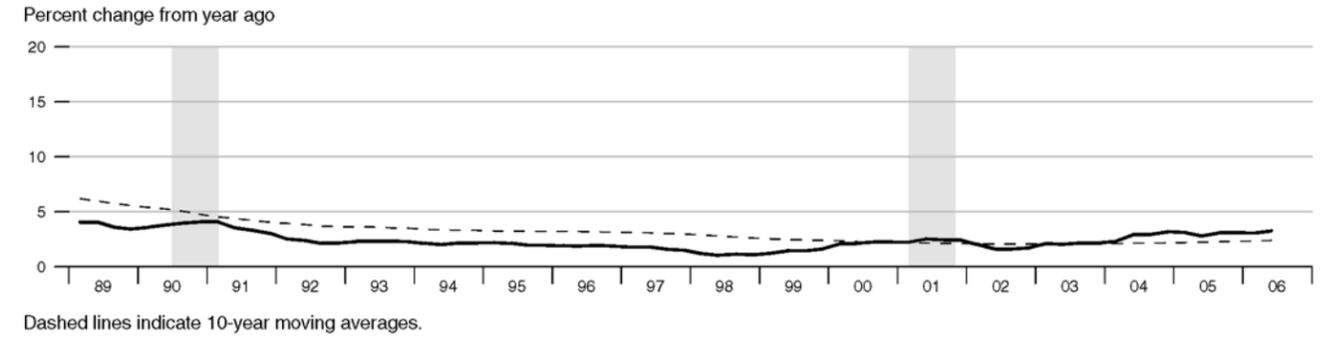
Gross Domestic Product



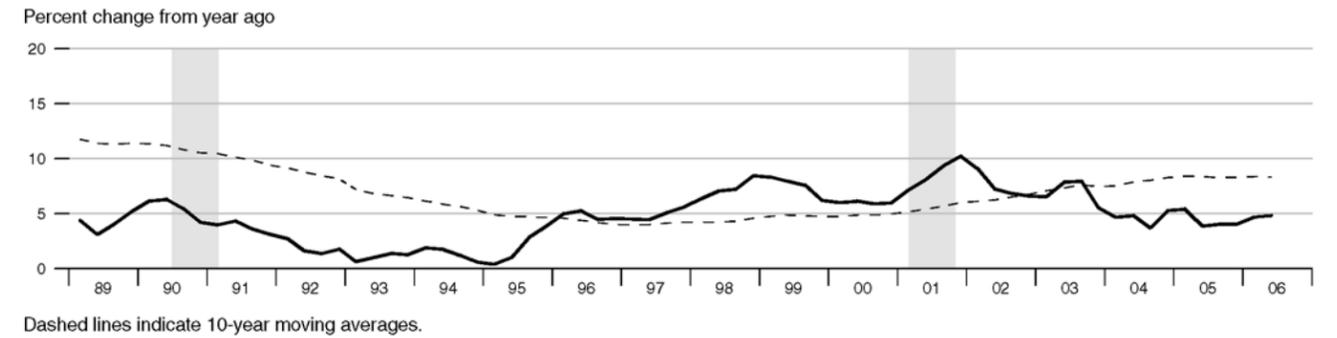
Real Gross Domestic Product



Gross Domestic Product Price Index

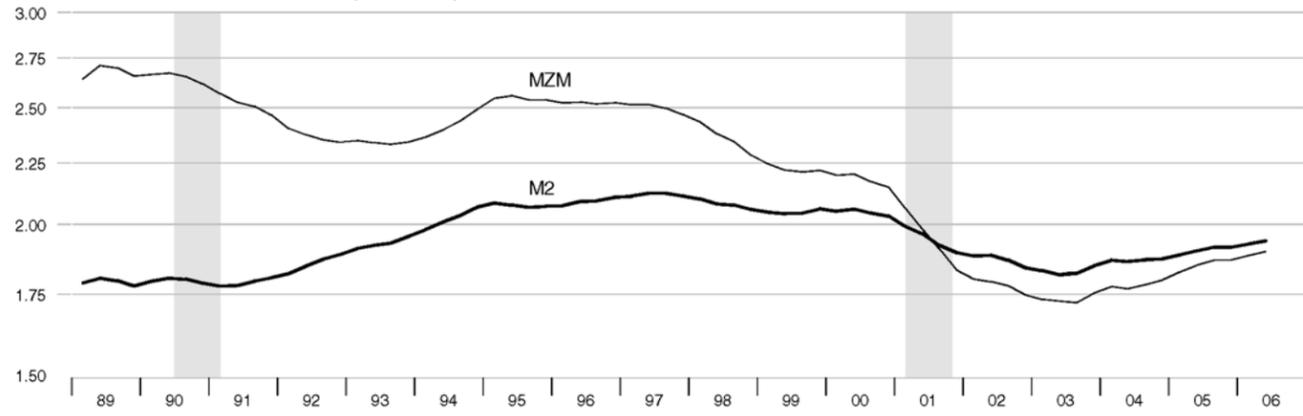


M2



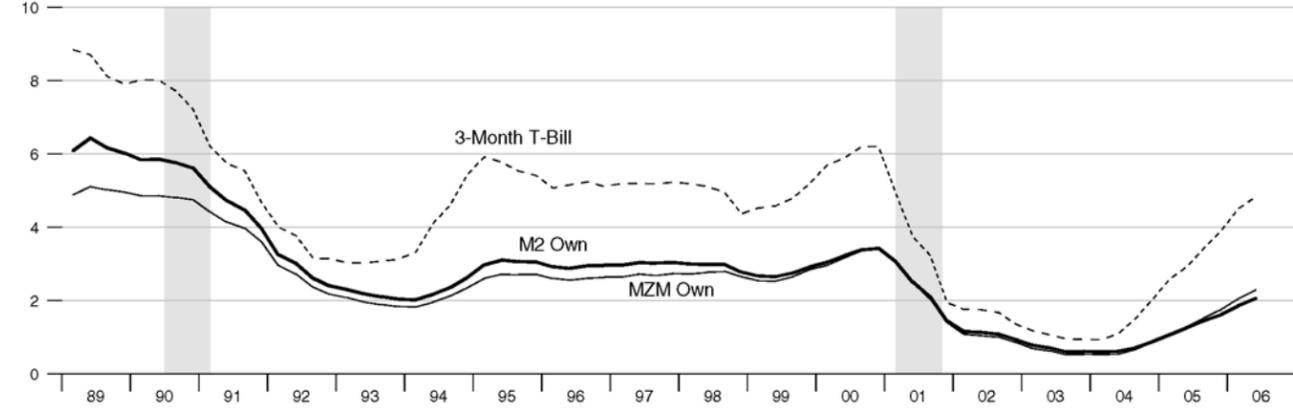
Velocity

Nominal GDP/MZM, Nominal GDP/M2 (Ratio Scale)



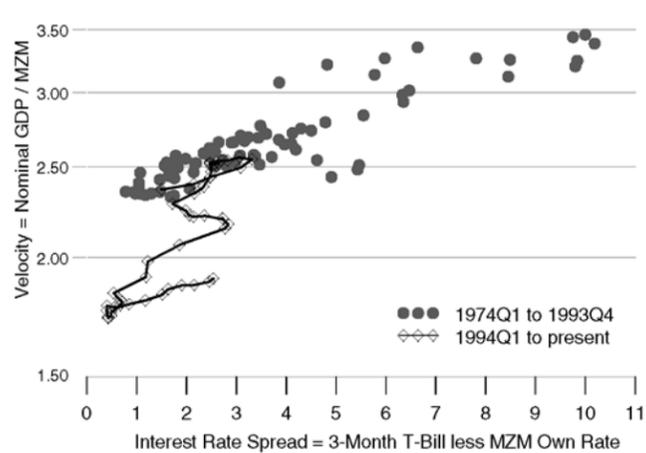
Interest Rates

Percent



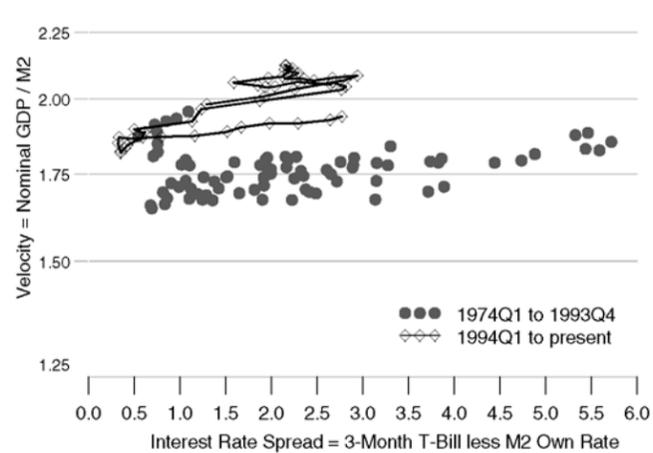
MZM Velocity and Interest Rate Spread

Ratio Scale



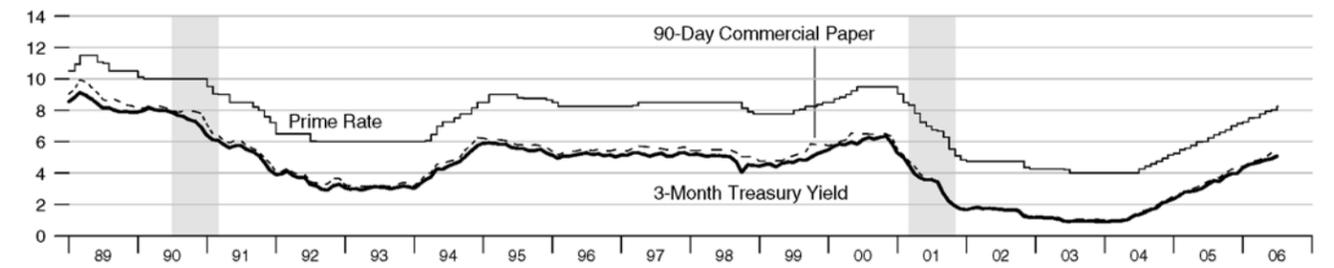
M2 Velocity and Interest Rate Spread

Ratio Scale



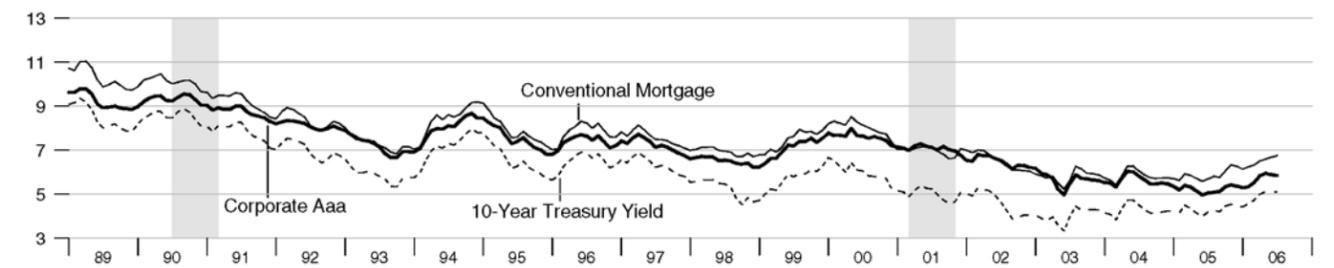
Short-Term Interest Rates

Percent



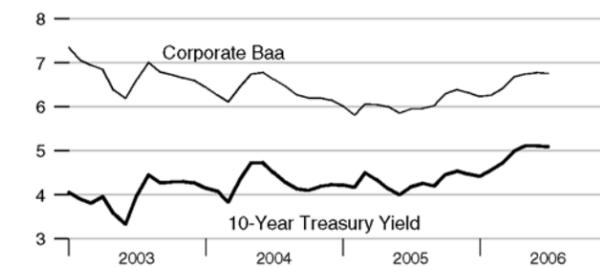
Long-Term Interest Rates

Percent



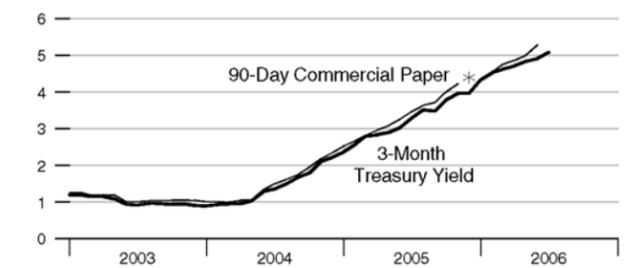
Long-Term Interest Rates

Percent



Short-Term Interest Rates

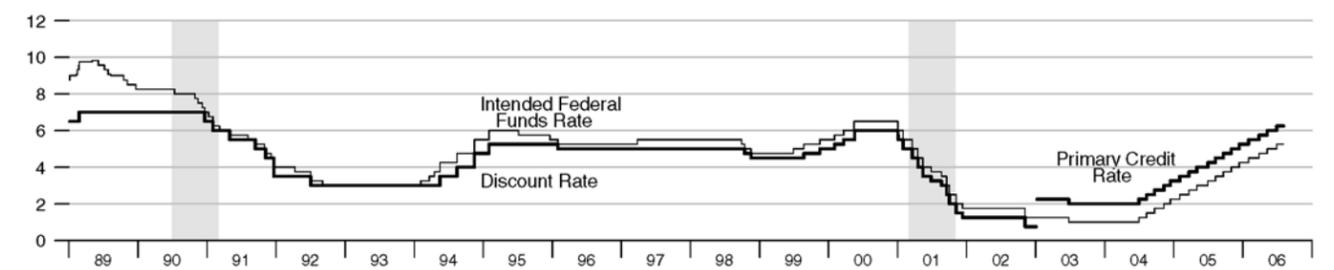
Percent



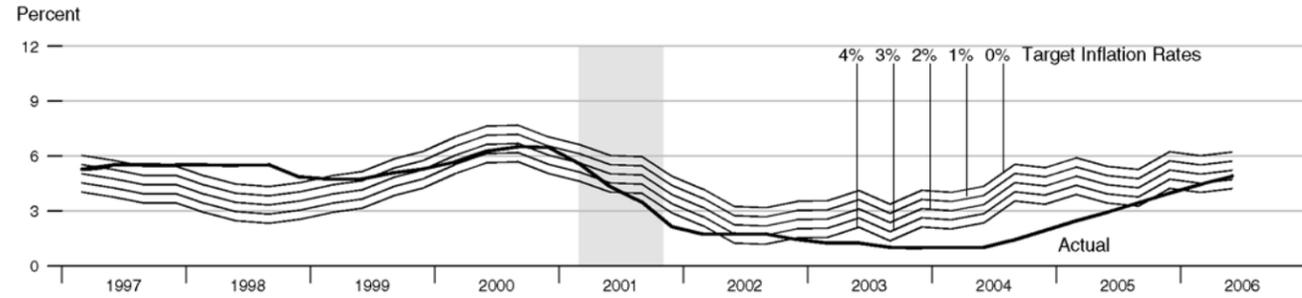
*90-Day Commercial Paper data are not available for December 2005, January 2006, and July 2006.

FOMC Intended Federal Funds Rate, Discount Rate, and Primary Credit Rate

Percent



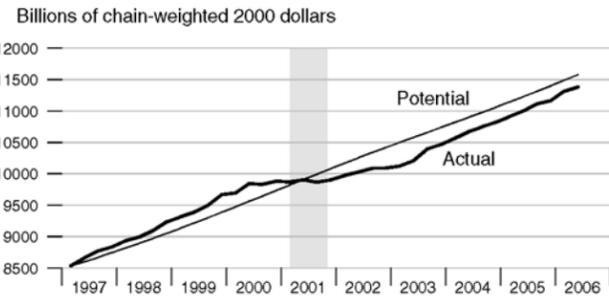
Federal Funds Rate and Inflation Targets



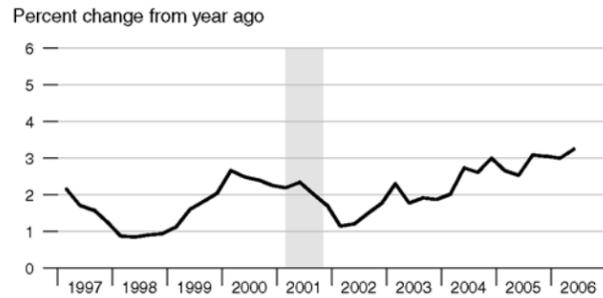
Calculated federal funds rate is based on Taylor's rule. See notes on page 19.

Components of Taylor's Rule

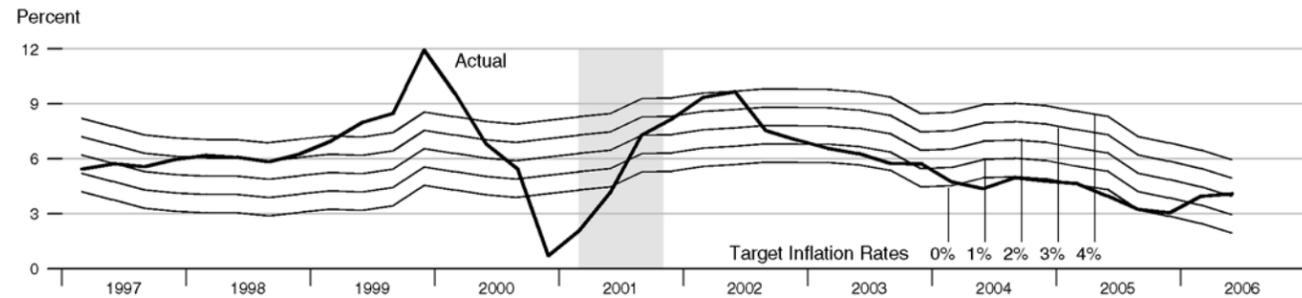
Actual and Potential Real GDP



PCE Inflation



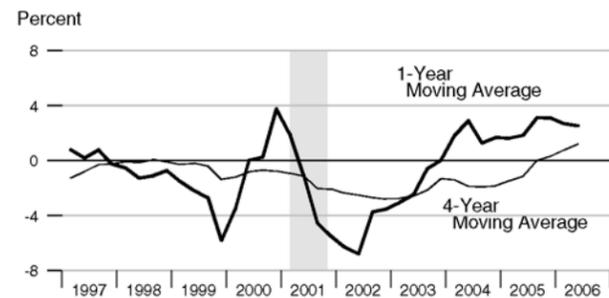
Monetary Base Growth* and Inflation Targets



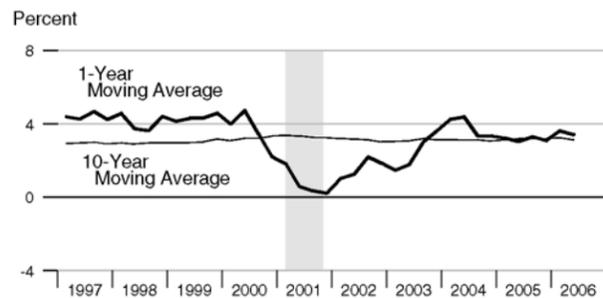
*Modified for the effects of sweeps programs on reserve demand. Calculated base growth is based on McCallum's rule. Actual base growth is percent change from year ago. See notes on page 19.

Components of McCallum's Rule

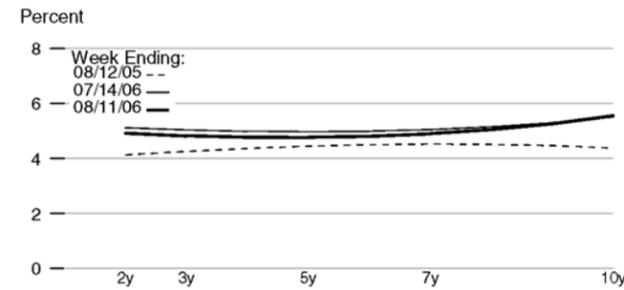
Monetary Base Velocity Growth



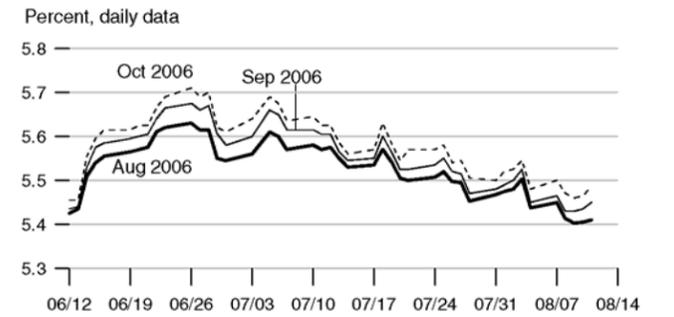
Real Output Growth



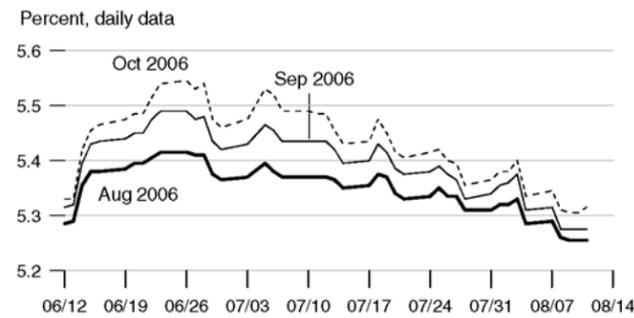
Implied One-Year Forward Rates



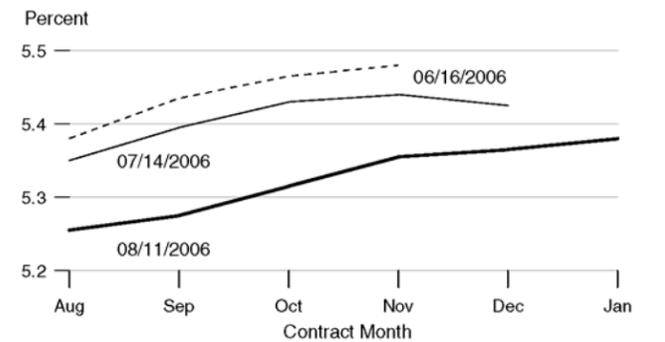
Rates on 3-Month Eurodollar Futures



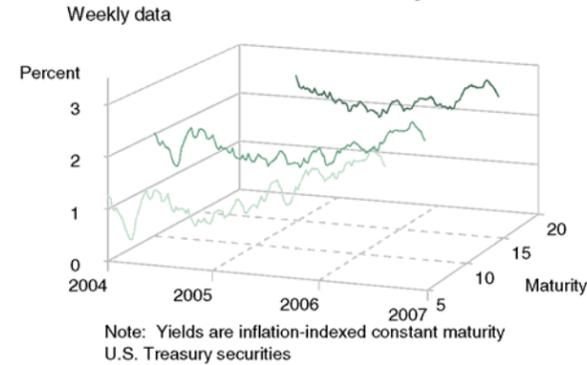
Rates on Selected Federal Funds Futures Contracts



Rates on Federal Funds Futures on Selected Dates

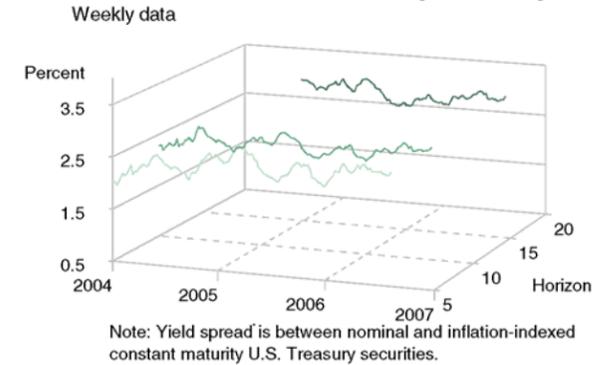


Inflation-Indexed Treasury Securities



Note: Yields are inflation-indexed constant maturity U.S. Treasury securities

Inflation-Indexed Treasury Yield Spreads



Note: Yield spread is between nominal and inflation-indexed constant maturity U.S. Treasury securities.

Inflation-Indexed 10-Year Government Notes



Inflation-Indexed 10-Year Government Yield Spreads

