

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 7/15/2016. **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/.

Who's Worrying about Inflation?

There is a puzzle in U.S. bond yields. The FOMC's statement after its October 25 meeting included some concern over future inflation: "Readings on core inflation have been elevated, and the high level of resource utilization has the potential to sustain inflation pressures." Participants in the long-term bond market do not seem to be worried, though. Should they be? Comparing the U.S. inflation experience with that in the United Kingdom may provide some insight.

The Fed does not have an explicit inflation target, but does have an implicit goal of price stability; and, like the inflation targeting countries, it has had a low and stable inflation rate. The Bank of England has had an inflation target since 1992. The U.K. target was 2.5 percent until 2004, when it was lowered to 2 percent after they changed the price index that was used to define the target; actual and expected U.S. inflation rates have centered on 2.5 percent since about 1996.

The chart shows U.S. consumer price index (CPI) and U.K. retail price index (RPI) inflation rates during the past decade and illustrates the simple idea that the U.S. CPI inflation rate has behaved as if the Fed did have an inflation target. The actual deviations of the U.S. CPI from a 2.5 percent trend are not noticeably different from U.K. deviations. At times, there were large differences between U.S. and U.K. inflation, but the amplitude and frequency of the deviations are approximately the same in both countries.

Some analysts are concerned about what this chart shows: that U.S. CPI inflation has been higher than trend for the past two years. Has something changed? This increase is attributed to the worldwide oil price shock, and yet the same increase does not show up in the U.K. data.

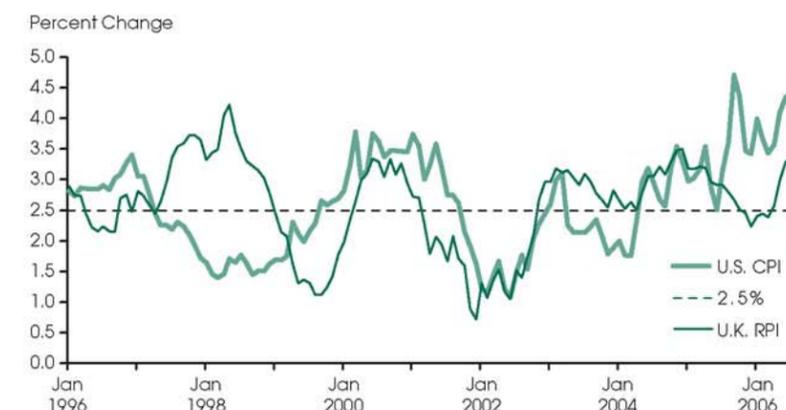
Proponents of explicit inflation targeting have argued that a target would

help concentrate expectations and encourage pricing behavior that would lessen and shorten deviations from trend. This comparison with the U.K. experience suggests that any improvement in observed deviations from trend probably would be small, but an interesting question arises: Even if it makes no difference in observed inflation dynamics, would the adoption of an explicit target make it easier to achieve any given target with a less aggressive interest rate policy?

The October FOMC statement further cautions that "the Committee judges that some inflation risks remain. The extent and timing of any additional firming that may be needed to address these risks will depend on the evolution of the outlook for both inflation and economic growth, as implied by incoming information." It may be that an inflation target would allow for a gentler policy response, should one be needed; of course, the bottom line is, if the FOMC is truly worried about inflation, then the bond market does not have to be.

—William T. Gavin

U.S. and U.K. Inflation



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

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4	Monetary Aggregates and Their Components
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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:

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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

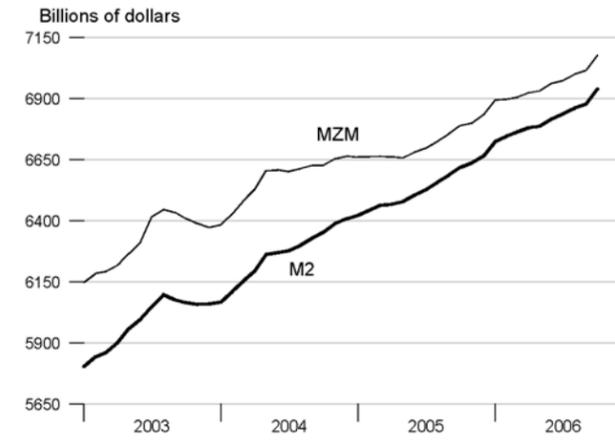
$$\Delta MB_t^* = \pi^* + (10\text{-year moving average growth of real GDP}) - (4\text{-year moving average of base velocity growth})$$

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.

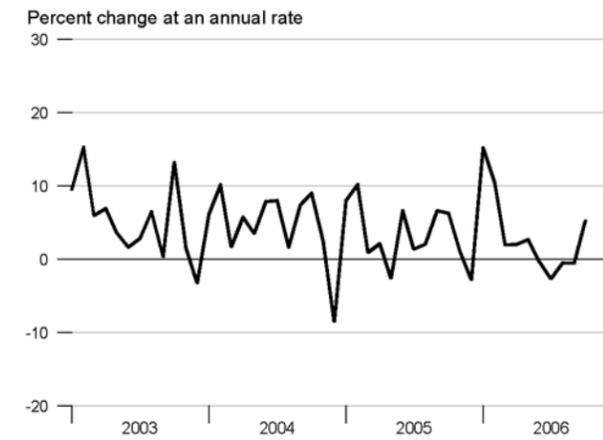
		M1	MZM	M2	M3*
Percent change at an annual rate					
	2001	3.33	15.79	8.70	11.49
	2002	4.91	12.76	7.37	7.98
	2003	6.46	7.41	6.99	6.40
	2004	5.57	4.01	4.67	5.09
	2005	1.98	2.24	4.34	5.97
<hr/>					
2004	1	5.81	2.63	3.35	5.43
	2	6.01	9.32	8.60	9.74
	3	4.34	2.02	3.83	4.04
	4	4.92	2.07	5.14	3.42
2005	1	0.04	0.81	3.75	5.63
	2	0.03	0.29	2.55	5.98
	3	1.04	3.59	4.56	7.81
	4	-0.06	4.82	5.02	9.29
2006	1	2.20	5.35	6.30	
	2	0.93	2.36	3.00	
	3	-4.71	3.29	3.78	
<hr/>					
2004	Oct	0.91	-0.04	4.53	0.96
	Nov	11.84	4.78	6.76	4.58
	Dec	-1.77	1.92	3.56	4.84
2005	Jan	-5.55	-0.69	2.68	6.90
	Feb	2.86	0.17	4.01	5.61
	Mar	3.09	0.38	3.70	4.25
	Apr	-8.09	-0.28	0.82	6.97
	May	6.15	-0.80	2.06	5.50
	Jun	3.38	4.14	4.95	7.48
	Jul	-4.28	2.96	4.01	4.58
	Aug	6.62	5.05	5.72	12.56
	Sep	-3.86	5.75	5.46	10.48
	Oct	1.65	5.79	5.53	9.79
	Nov	0.72	1.80	3.49	5.57
	Dec	-5.75	5.77	4.80	8.99
2006	Jan	10.34	10.69	10.80	10.49
	Feb	-4.10	0.67	3.97	6.55
	Mar	7.88	1.31	2.97	
	Apr	1.78	3.26	3.24	
	May	5.56	1.48	1.04	
	Jun	-19.61	5.20	5.22	
	Jul	2.69	1.96	3.74	
	Aug	-2.81	4.40	4.15	
	Sep	-10.99	2.95	2.89	
	Oct	10.21	10.32	10.58	

*See table of contents for changes to the series.

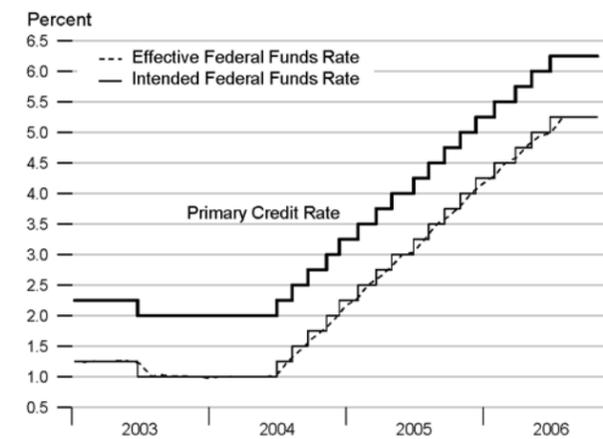
M2 and MZM



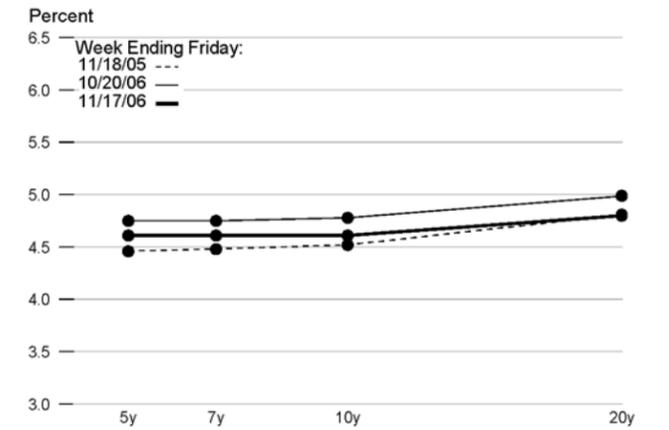
Adjusted Monetary Base



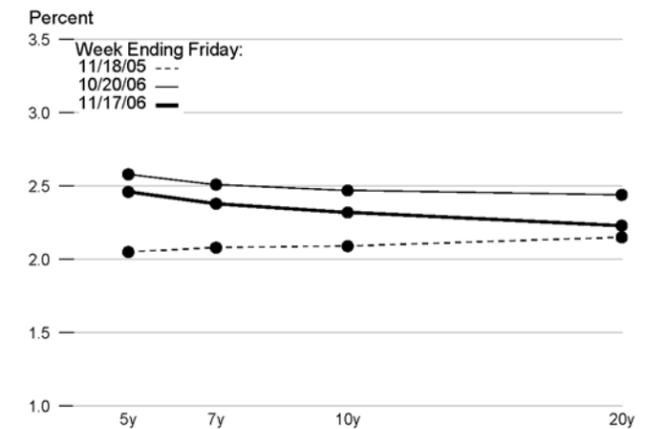
Reserve Market Rates



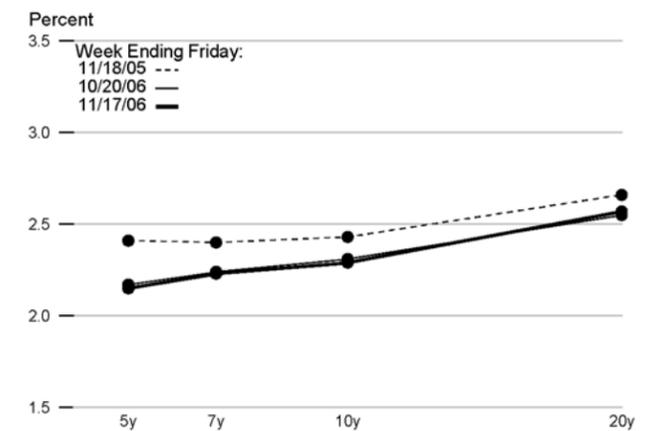
Treasury Yield Curve



Real Treasury Yield Curve

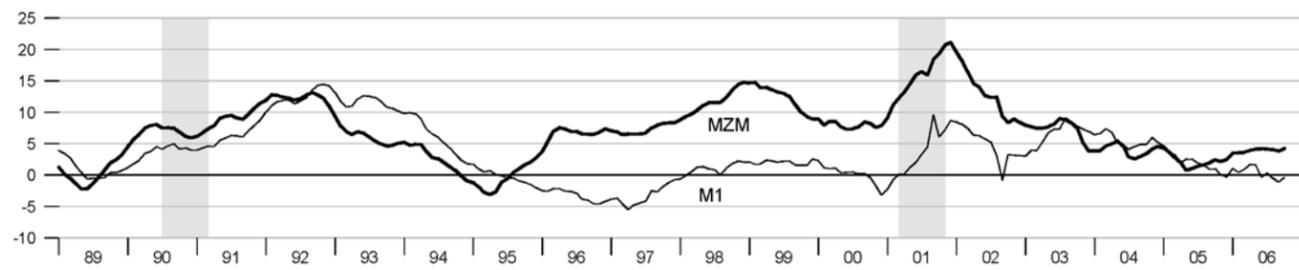


Inflation-Indexed Treasury Yield Spreads



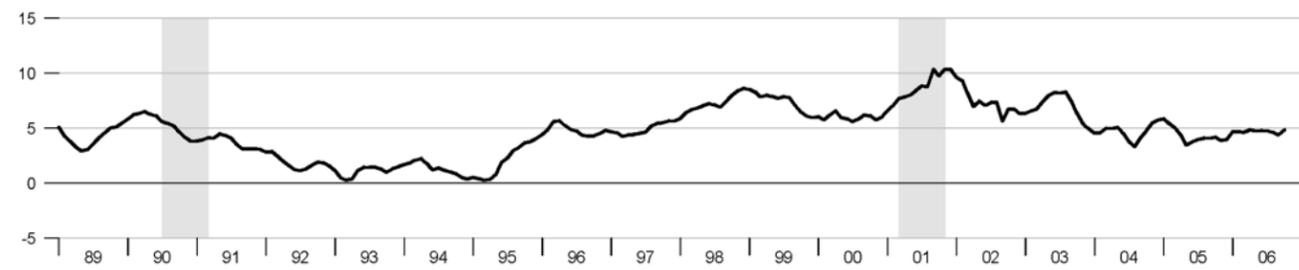
MZM and M1

Percent change from year ago



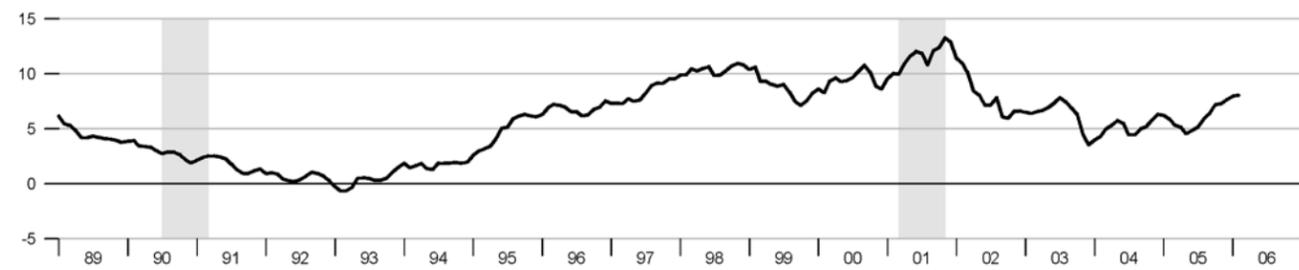
M2

Percent change from year ago



M3*

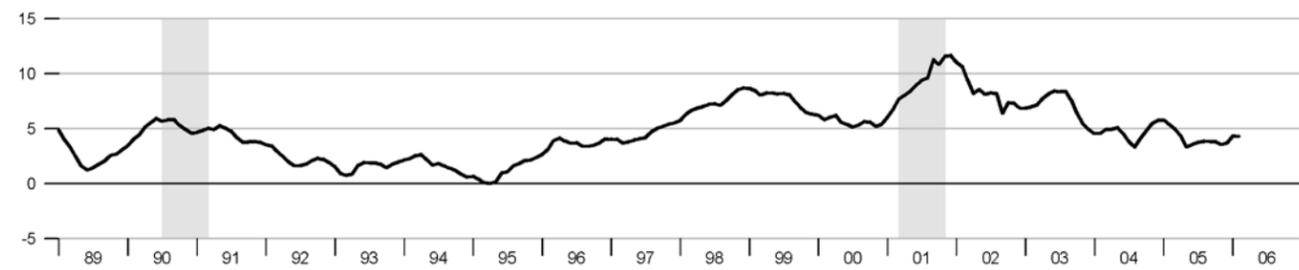
Percent change from year ago



*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	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
	3	5.25	6.25	8.25	5.39	5.03	4.87	4.90	5.68	4.13	6.56
2004	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	4.41	6.76
	Aug	5.25	6.25	8.25	5.38	5.09	4.85	4.88	5.68	4.10	6.52
	Sep	5.25	6.25	8.25	5.34	4.93	4.69	4.72	5.51	3.87	6.40
	Oct	5.25	6.25	8.25	5.33	5.05	4.72	4.73	5.51	3.91	6.36

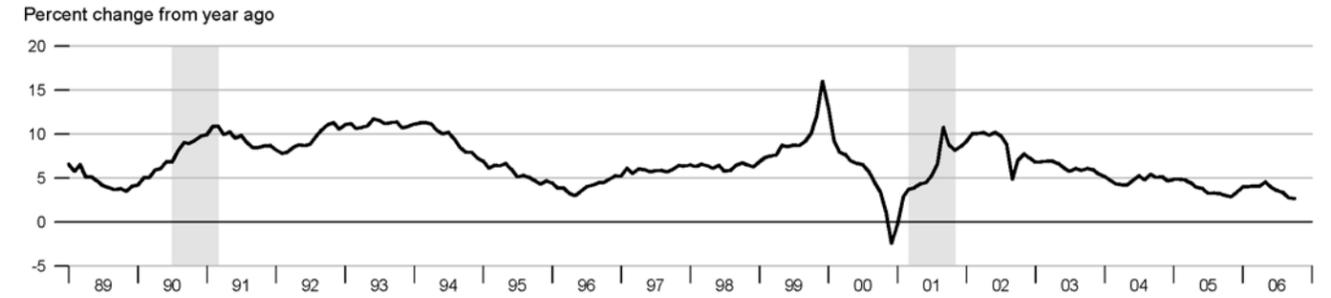
Note: All values are given as a percent at an annual rate.

		Money Stock				Bank Credit	Adjusted Monetary Base		MSI M2**
		M1	MZM	M2	M3*		Reserves		
2001		1140.196	5214.937	5206.345	7648.507	5344.171	641.167	86.172	271.477
2002		1196.168	5880.308	5590.239	8259.055	5597.596	697.092	88.158	294.080
2003		1273.407	6315.985	5980.907	8787.321	6122.999	740.929	93.313	315.192
2004		1344.324	6569.473	6260.024	9234.718	6598.996	776.707	96.066	329.873
2005		1370.962	6716.403	6531.713	9786.477	7240.086	806.303	96.234	343.539
2004	1	1318.047	6431.982	6111.332	9003.705	6428.111	761.428	95.033	322.050
	2	1337.860	6581.799	6242.697	9223.054	6557.138	771.146	96.603	328.960
	3	1352.373	6614.968	6302.546	9316.285	6650.066	782.783	96.802	332.111
	4	1369.017	6649.142	6383.522	9395.830	6760.670	791.470	95.826	336.371
2005	1	1369.140	6662.556	6443.343	9528.052	6989.073	798.242	96.651	339.356
	2	1369.260	6667.414	6484.438	9670.405	7160.044	802.642	96.076	341.280
	3	1372.821	6727.253	6558.398	9859.294	7350.961	808.390	96.289	344.766
	4	1372.625	6808.390	6640.674	10088.16	7460.264	815.939	95.919	348.753
2006	1	1380.169	6899.518	6745.215		7639.296	830.493	96.444	
	2	1383.368	6940.306	6795.768		7886.379	836.373	95.060	
	3	1367.084	6997.358	6859.917		8015.462	834.596	94.839	
2004	Oct	1360.739	6627.997	6353.339	9359.369	6721.281	792.254	97.567	334.816
	Nov	1374.170	6654.387	6389.139	9395.128	6762.320	793.883	96.833	336.675
	Dec	1372.141	6665.041	6408.088	9432.994	6798.410	788.274	93.077	337.622
2005	Jan	1365.795	6661.230	6422.413	9487.218	6892.938	793.547	95.107	338.366
	Feb	1369.052	6662.166	6443.867	9531.592	6993.494	800.278	97.809	339.355
	Mar	1372.574	6664.272	6463.748	9565.346	7080.787	800.901	97.038	340.347
2005	Apr	1363.316	6662.721	6468.138	9620.909	7106.078	802.311	97.421	340.663
	May	1370.305	6658.270	6479.217	9665.013	7158.750	800.595	94.589	340.941
	Jun	1374.159	6681.250	6505.958	9725.292	7215.303	805.020	96.217	342.235
2005	Jul	1369.263	6697.728	6527.722	9762.435	7281.119	805.962	95.527	343.275
	Aug	1376.812	6725.905	6558.827	9864.629	7361.653	807.375	95.634	344.739
	Sep	1372.387	6758.127	6588.645	9950.818	7410.112	811.833	97.706	346.285
2005	Oct	1374.270	6790.709	6618.997	10031.96	7429.263	816.097	97.346	347.590
	Nov	1375.095	6800.890	6638.223	10078.49	7449.932	816.783	96.870	348.603
	Dec	1368.511	6833.570	6664.801	10154.03	7501.597	814.936	93.541	350.067
2006	Jan	1380.299	6894.439	6724.806	10242.79	7558.528	825.247	96.871	353.032
	Feb	1375.585	6898.288	6747.069	10298.68	7645.843	832.436	96.891	353.943
	Mar	1384.622	6905.828	6763.770		7713.517	833.797	95.571	
2006	Apr	1386.674	6924.604	6782.022		7804.661	835.228	95.487	
	May	1393.096	6933.145	6787.882		7922.456	837.093	94.400	
	Jun	1370.335	6963.169	6817.399		7932.019	836.797	95.292	
2006	Jul	1373.408	6974.556	6838.652		7983.374	834.952	94.861	
	Aug	1370.193	7000.142	6862.290		8033.503	834.601	94.705	
	Sep	1357.650	7017.376	6878.809		8029.510	834.236	94.952	
2006	Oct	1369.204	7077.722	6939.460		8148.869	837.870	93.983	

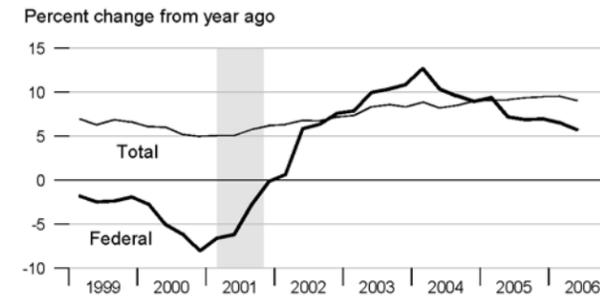
Note: All values are given in billions of dollars. *See table of contents for changes to the series.

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

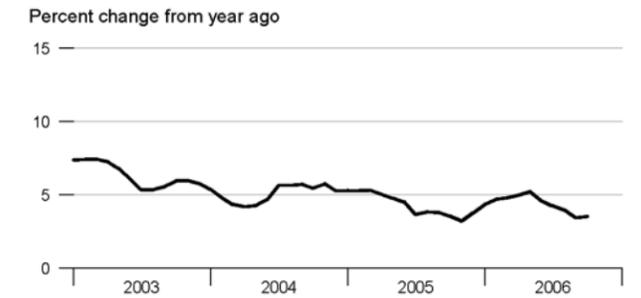
Adjusted Monetary Base



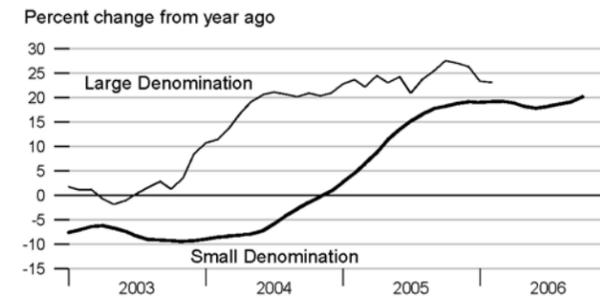
Domestic Nonfinancial Debt



Currency Held by the Nonbank Public

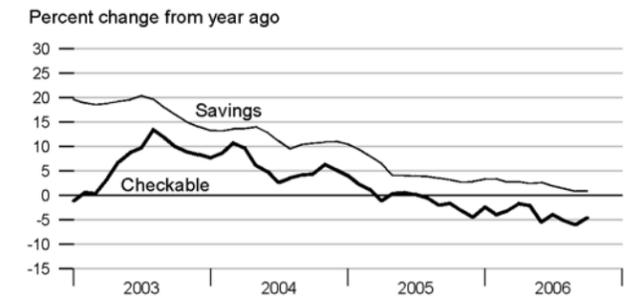


Time Deposits*

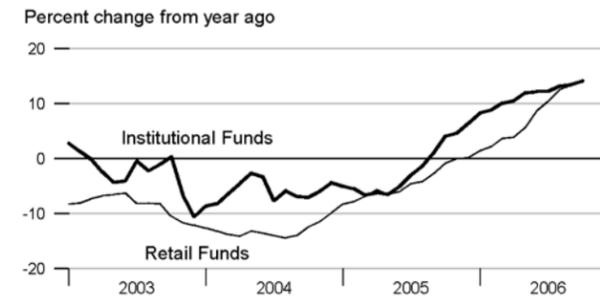


*See table of contents for changes to the series.

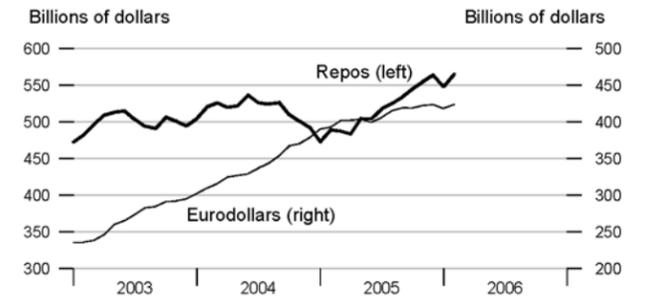
Checkable and Savings Deposits



Money Market Mutual Fund Shares



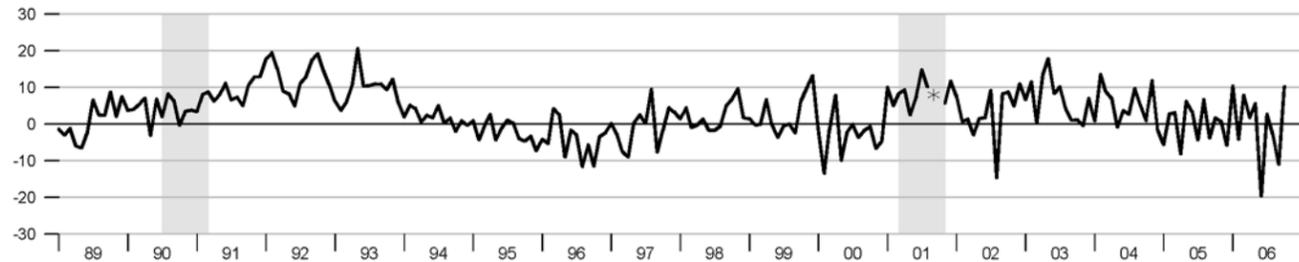
Repurchase Agreements and Eurodollars*



*See table of contents for changes to these series.

M1

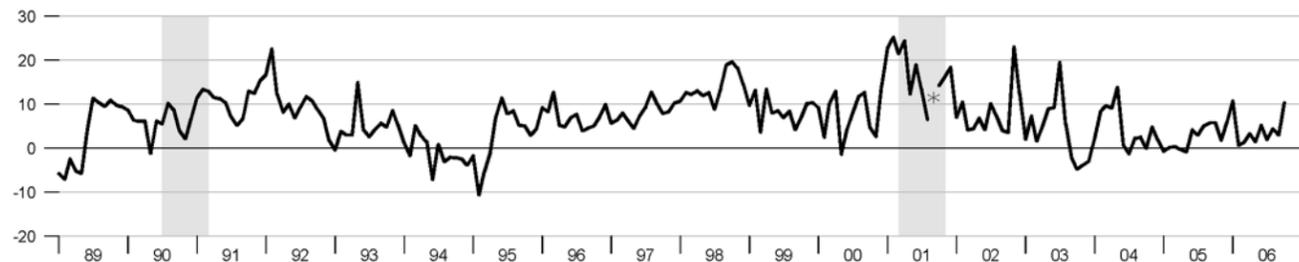
Percent change at an annual rate



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

MZM

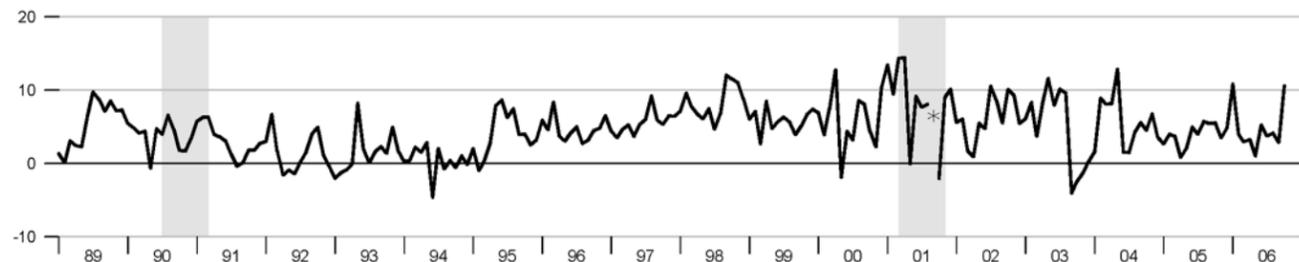
Percent change at an annual rate



*Actual value for September 2001 is 39.41 percent rate.

M2

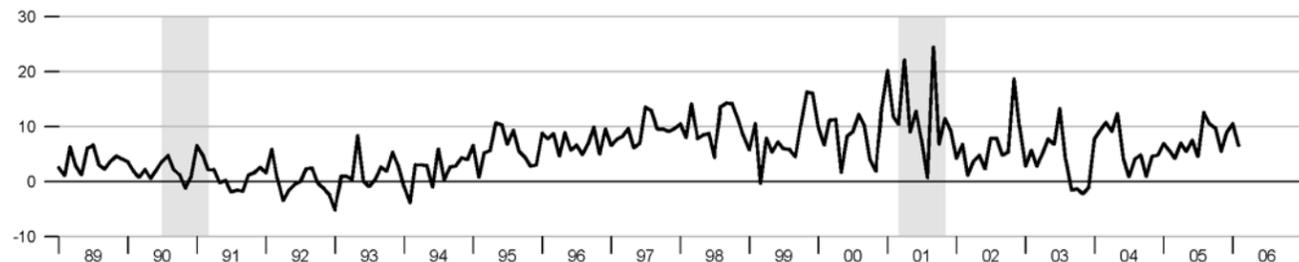
Percent change at an annual rate



*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.

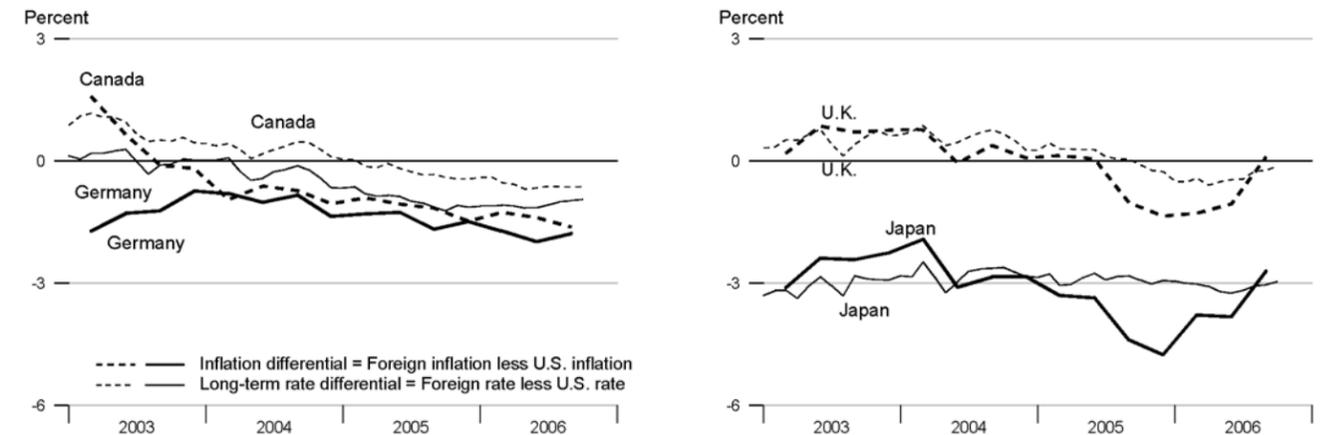
Standard & Poor's 500



Recent Inflation and Long-Term Interest Rates

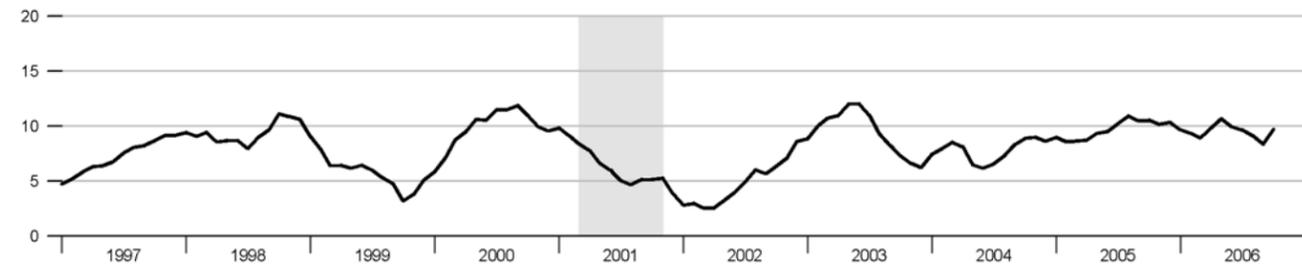
	Consumer Price Inflation Rates				Long-Term Government Bond Rates			
	Percent change from year ago				Percent			
	2005Q4	2006Q1	2006Q2	2006Q3	Jul06	Aug06	Sep06	Oct06
United States	3.73	3.68	3.99	3.34	5.09	4.88	4.72	4.73
Canada	2.26	2.41	2.60	1.72	4.47	4.25	4.08	4.10
France	1.65	1.79	1.92	1.68	4.03	3.90	3.77	3.90
Germany	2.25	1.96	2.01	1.56	4.01	3.88	3.75	3.79
Italy	2.15	2.14	2.23	2.17	4.31	4.17	4.04	4.07
Japan	-1.02	-0.10	0.17	0.63	1.91	1.82	1.68	1.77
United Kingdom	2.38	2.39	2.93	3.44	4.64	4.63	4.49	4.61

Inflation and Long-Term Interest Rate Differentials



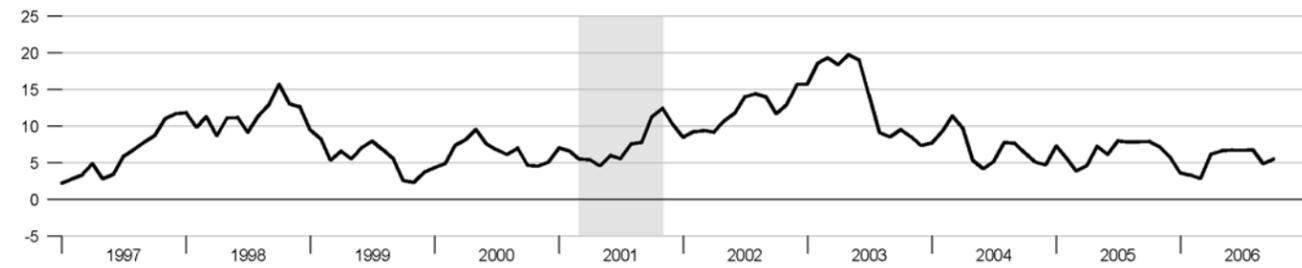
Bank Credit

Percent change from year ago



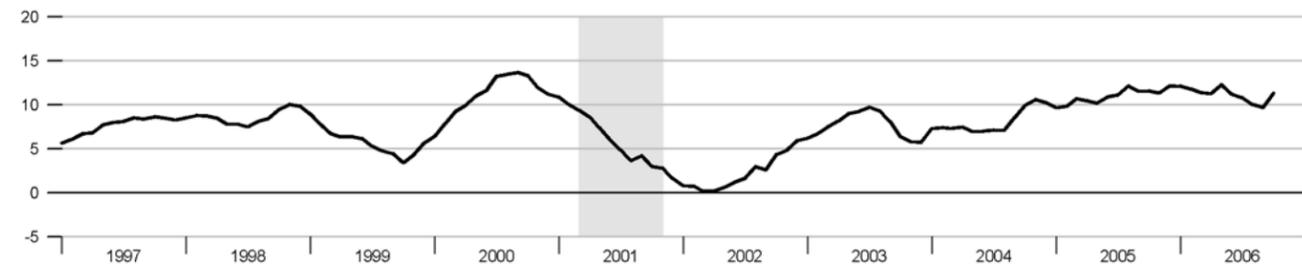
Investment Securities in Bank Credit at Commercial Banks

Percent change from year ago



Total Loans and Leases in Bank Credit at Commercial Banks

Percent change from year ago



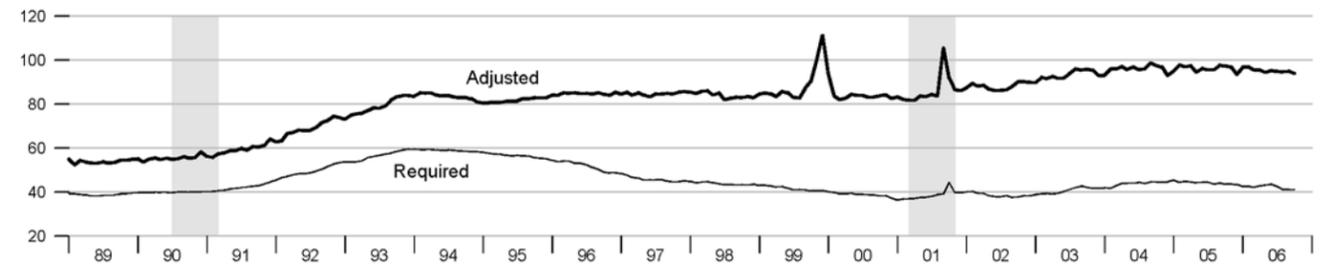
Commercial and Industrial Loans at Commercial Banks

Percent change from year ago



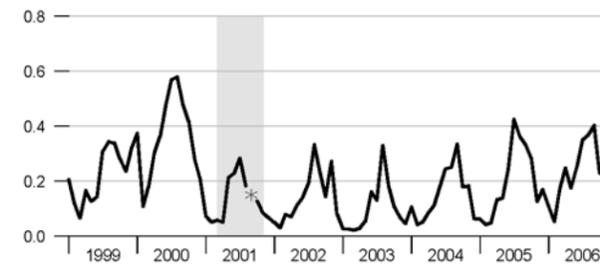
Adjusted and Required Reserves

Billions of dollars



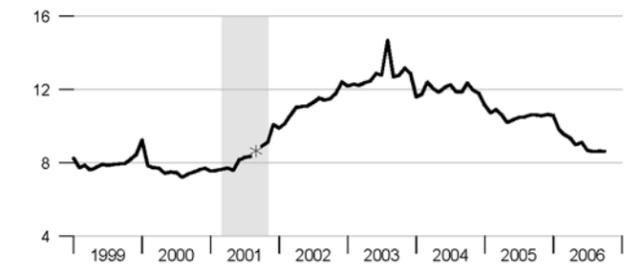
Total Borrowings, nsa

Billions of dollars



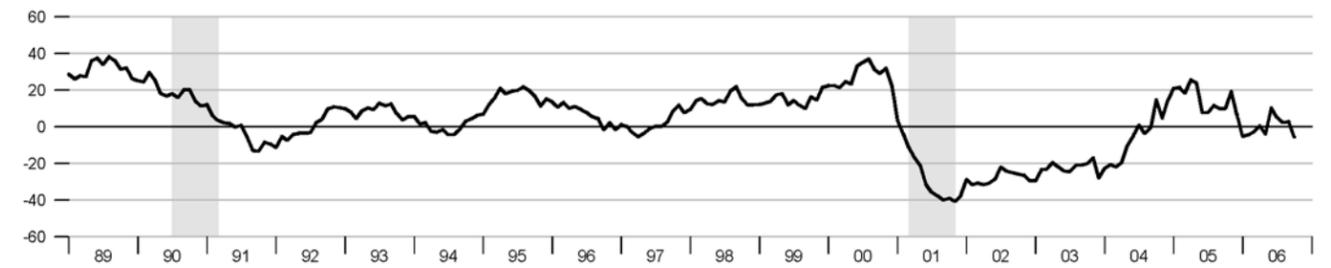
Excess Reserves plus RCB Contracts

Billions of dollars



Nonfinancial Commercial Paper

Percent change from year ago



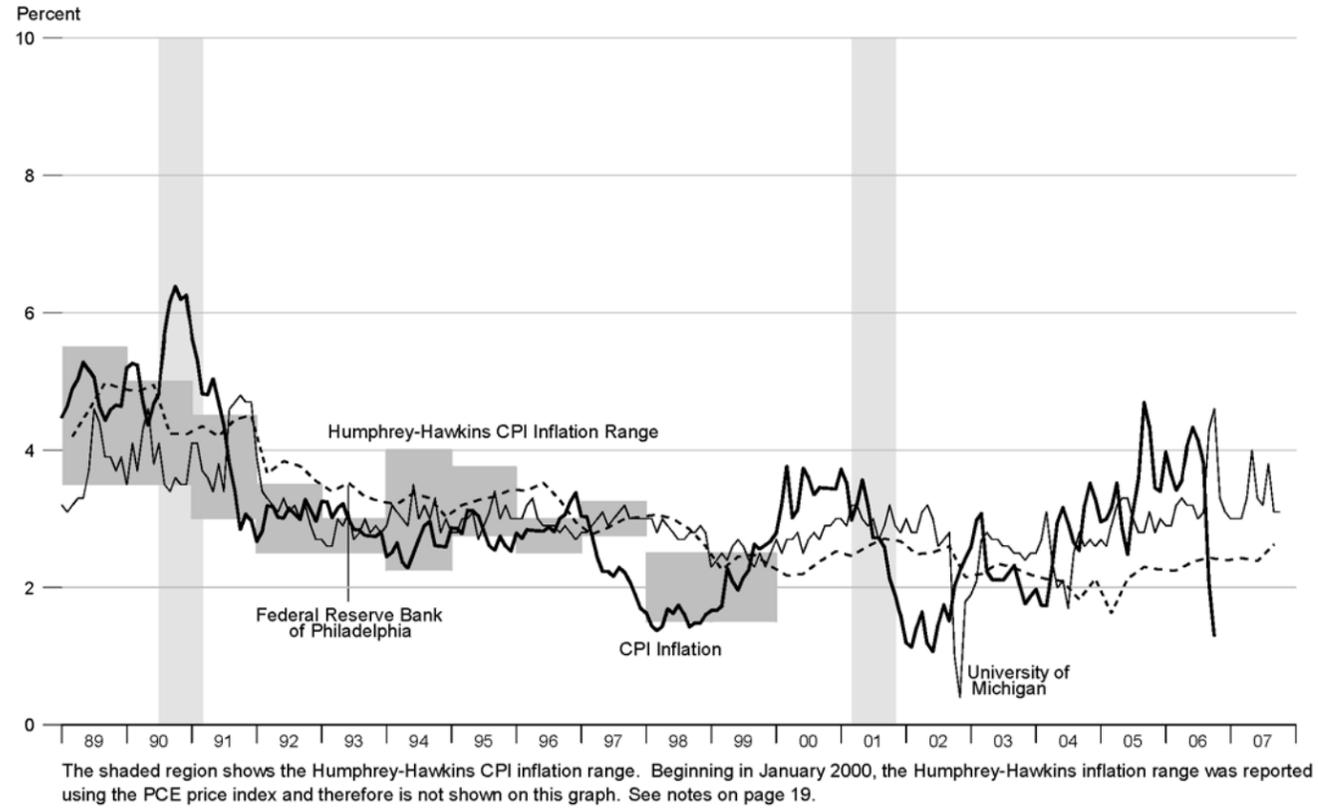
As of April 10, 2006, the Federal Reserve Board made major changes to its commercial paper calculations. For more information, please refer to <http://www.federalreserve.gov/releases/cp/about.htm>.

Consumer Credit

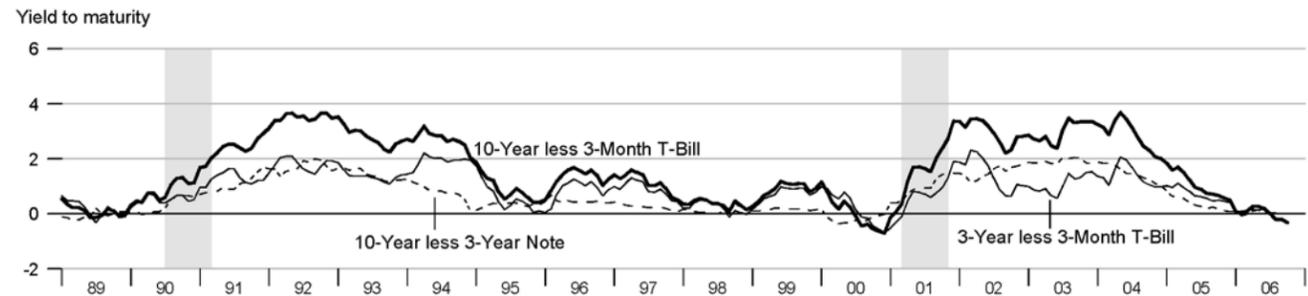
Percent change from year ago



Inflation and 1-Year-Ahead Inflation Expectations



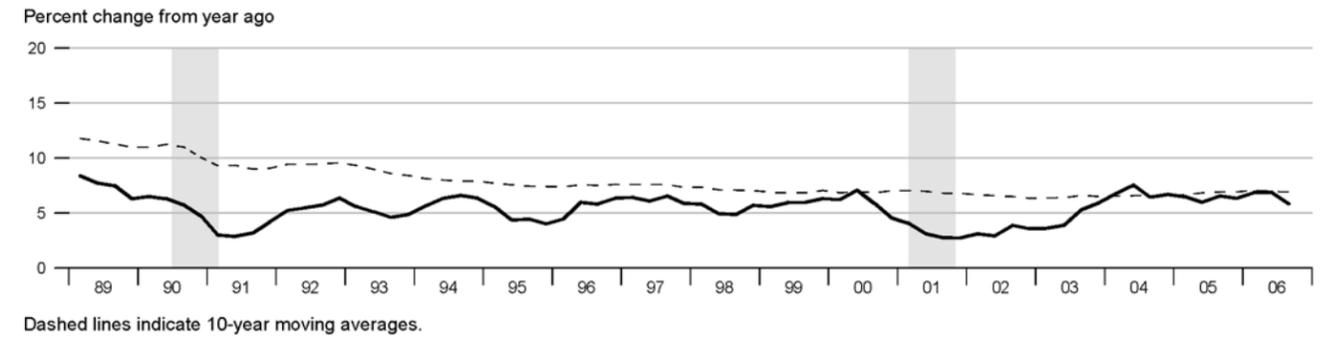
Treasury Security Yield Spreads



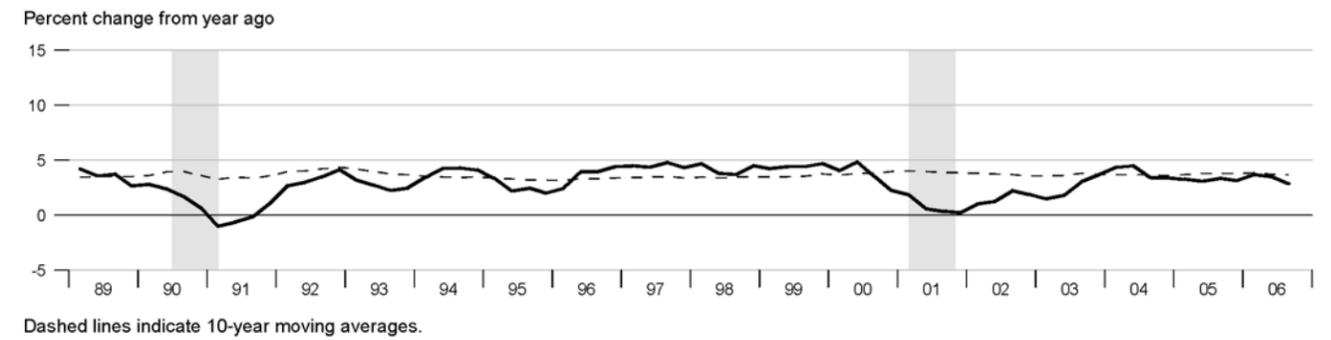
Real Interest Rates



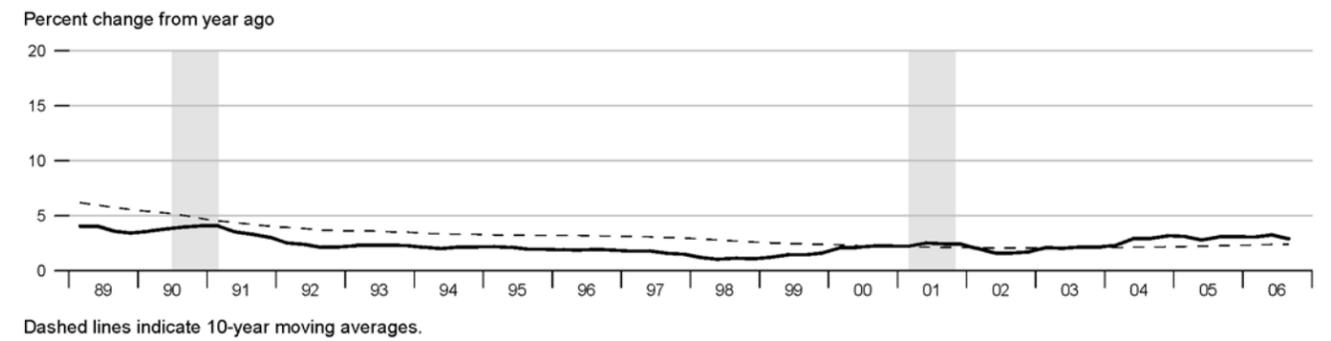
Gross Domestic Product



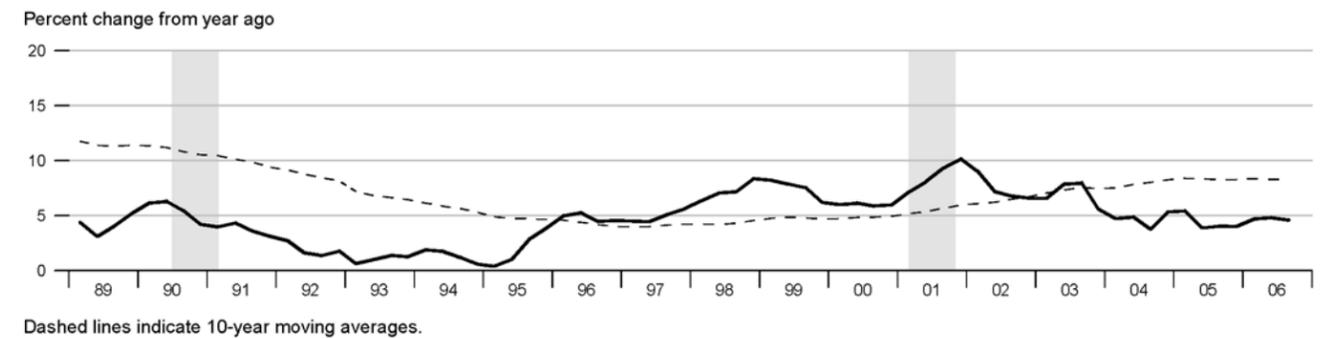
Real Gross Domestic Product



Gross Domestic Product Price Index

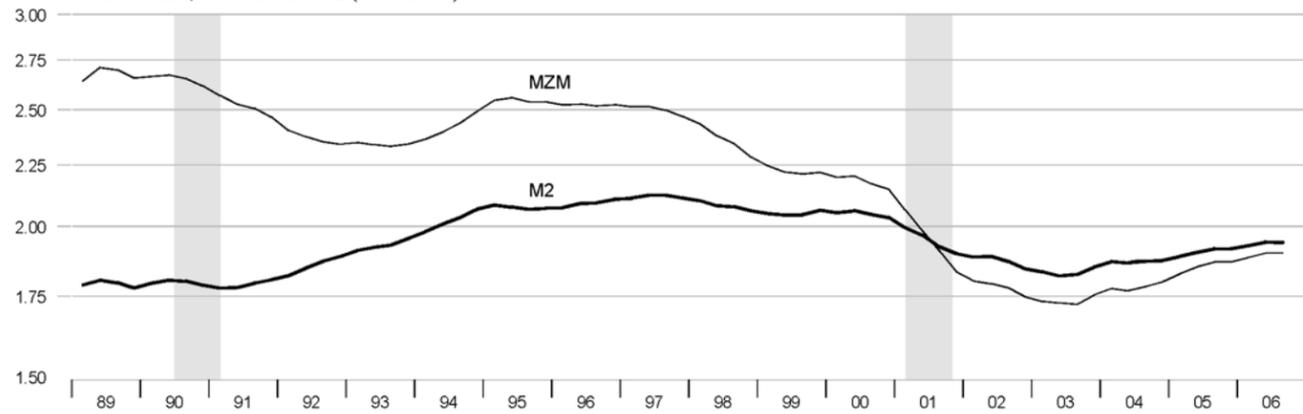


M2



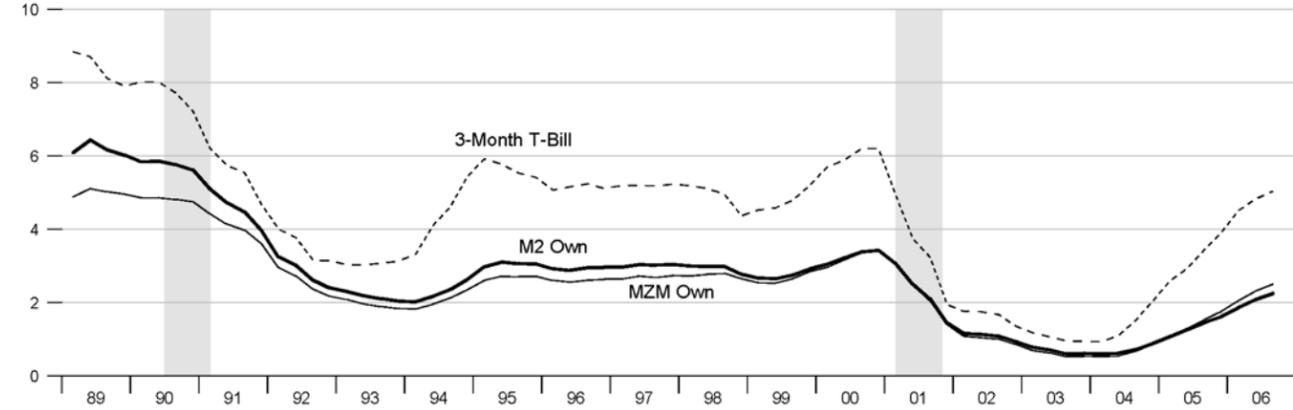
Velocity

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



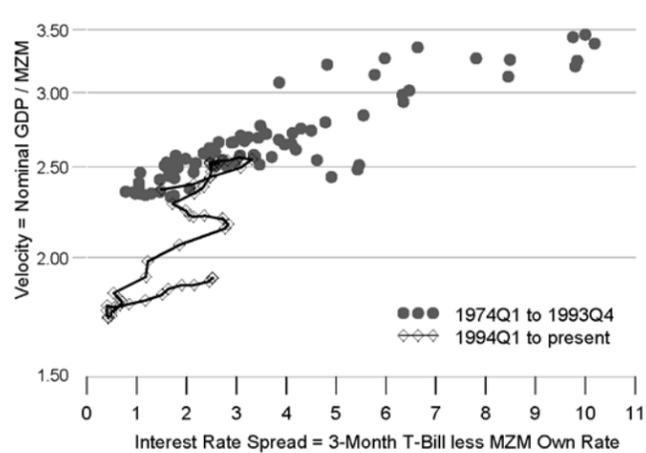
Interest Rates

Percent



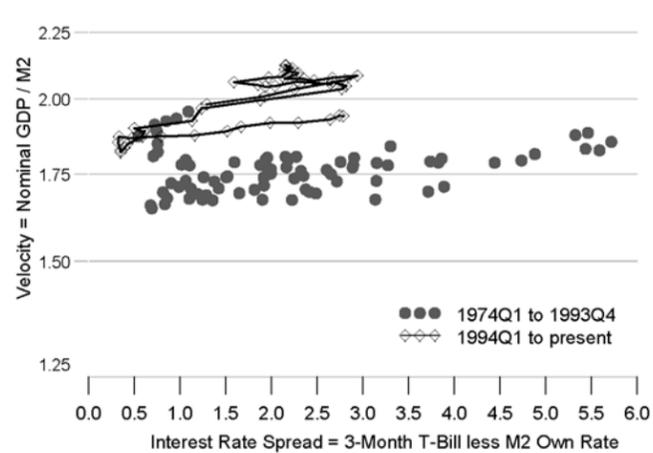
MZM Velocity and Interest Rate Spread

Ratio Scale



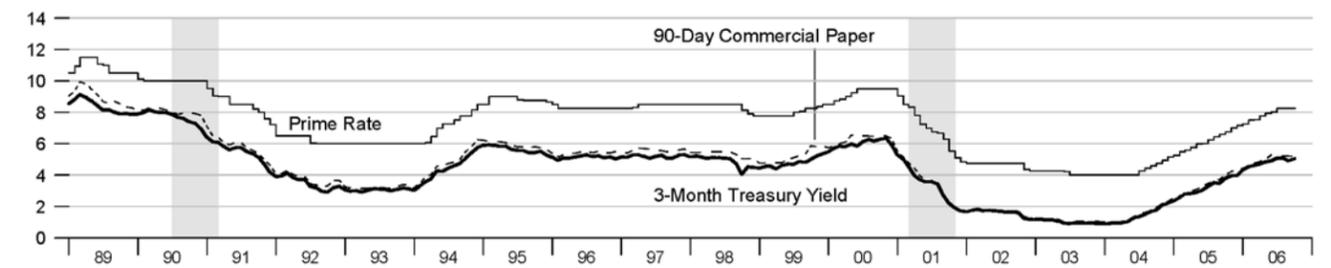
M2 Velocity and Interest Rate Spread

Ratio Scale



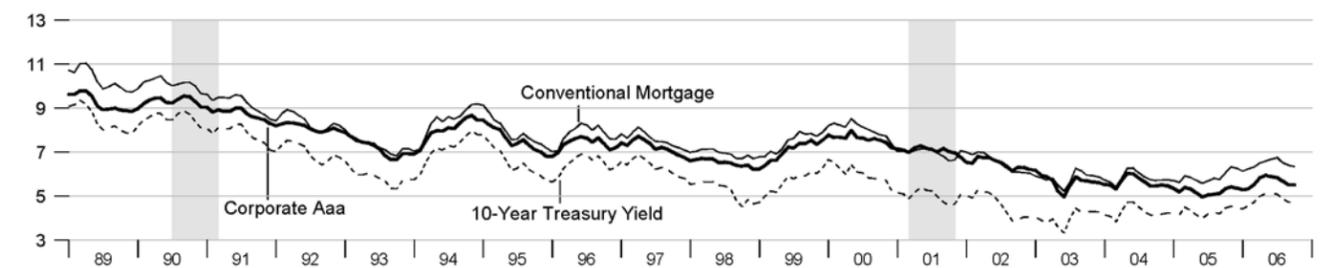
Short-Term Interest Rates

Percent



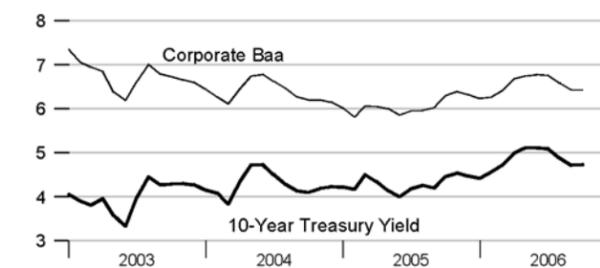
Long-Term Interest Rates

Percent



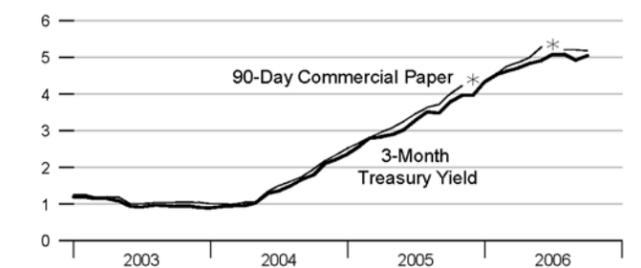
Long-Term Interest Rates

Percent



Short-Term Interest Rates

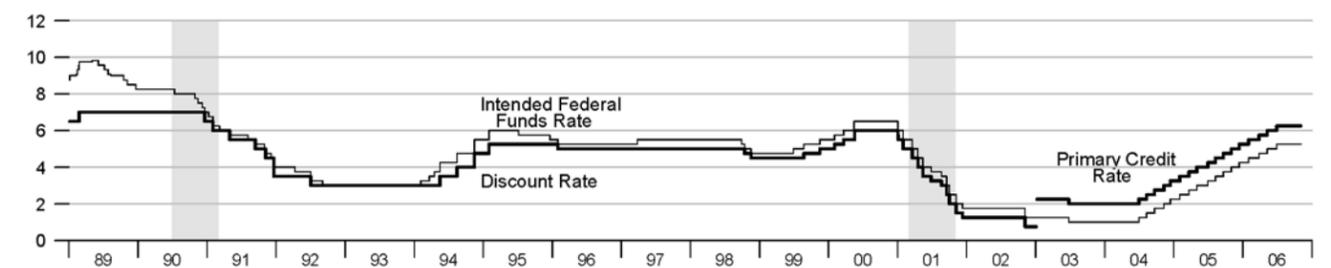
Percent



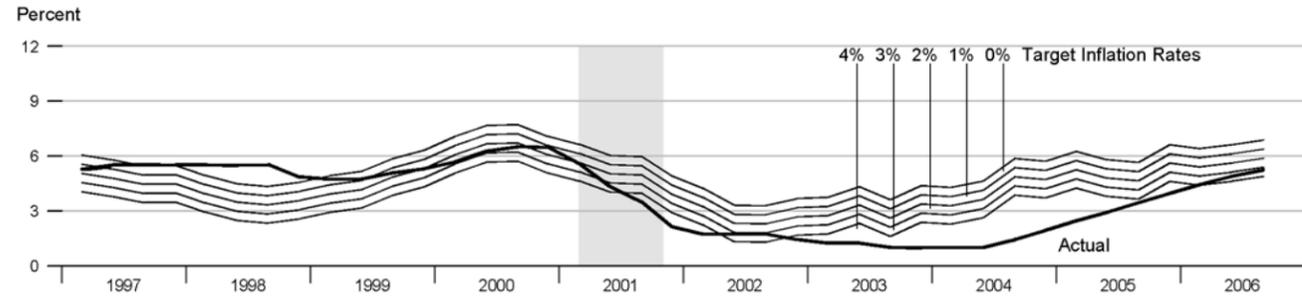
*90-Day Commercial Paper data are not available for December 2005, January 2006, and July 2006.

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

Percent



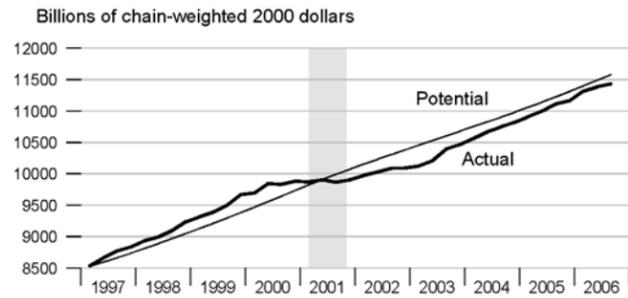
Federal Funds Rate and Inflation Targets



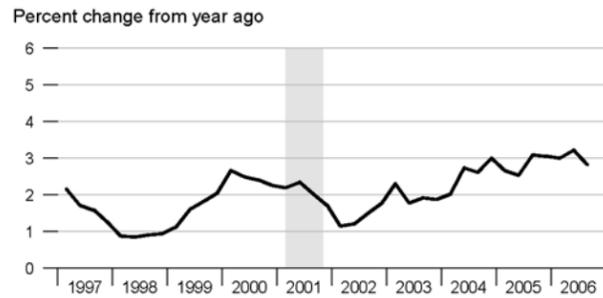
Calculated federal funds rate is based on Taylor's rule. See notes on page 19.

Components of Taylor's Rule

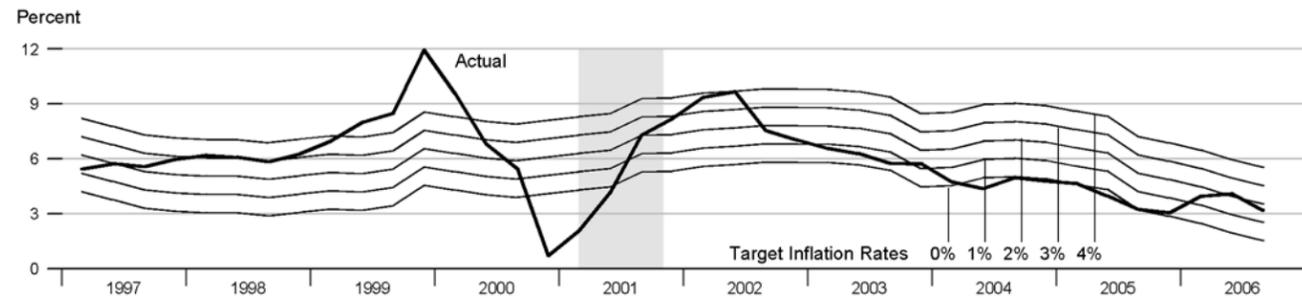
Actual and Potential Real GDP



PCE Inflation



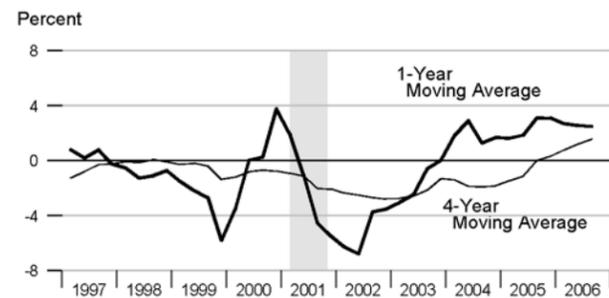
Monetary Base Growth* and Inflation Targets



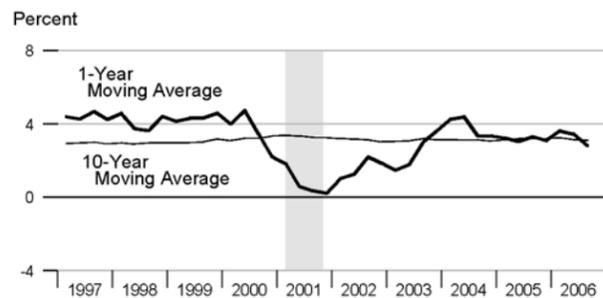
*Modified for the effects of sweeps programs on reserve demand. Calculated base growth is based on McCallum's rule. Actual base growth is percent change from year ago. See notes on page 19.

Components of McCallum's Rule

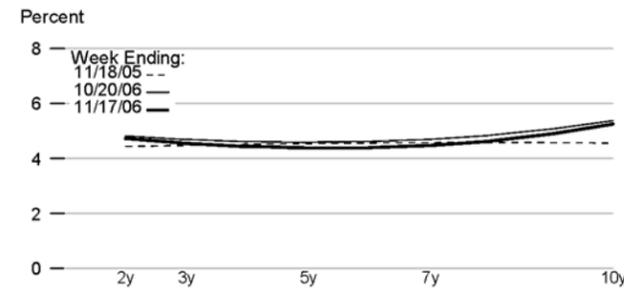
Monetary Base Velocity Growth



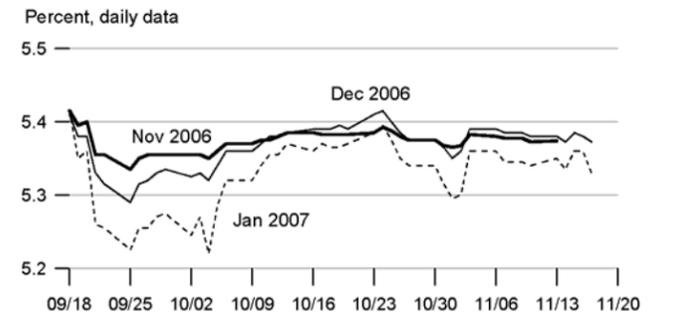
Real Output Growth



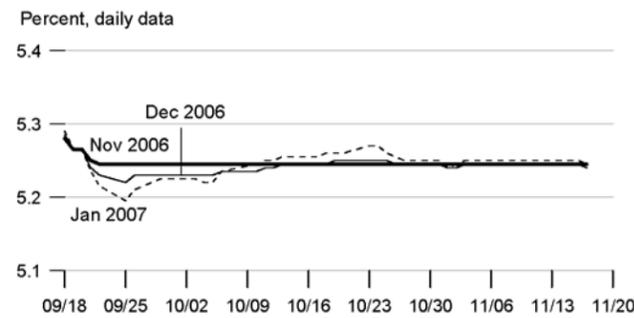
Implied One-Year Forward Rates



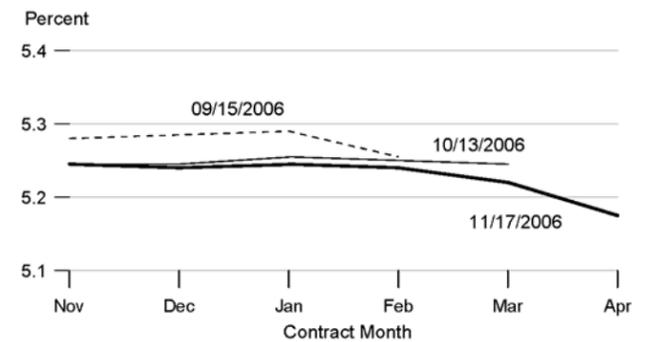
Rates on 3-Month Eurodollar Futures



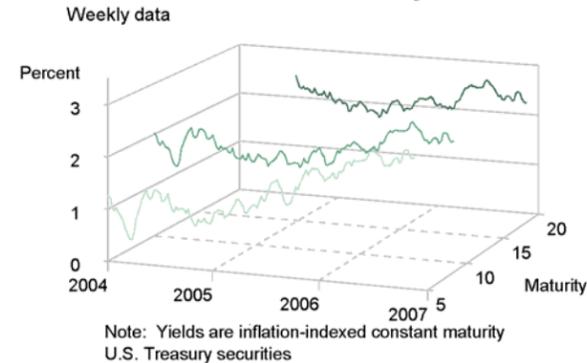
Rates on Selected Federal Funds Futures Contracts



Rates on Federal Funds Futures on Selected Dates

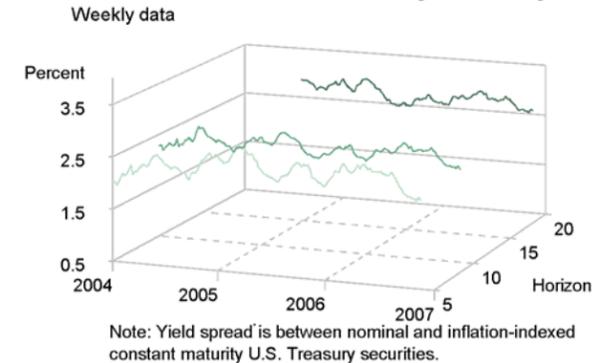


Inflation-Indexed Treasury Securities



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

