



Monetary Policy Tools in an Environment of Low Interest Rates

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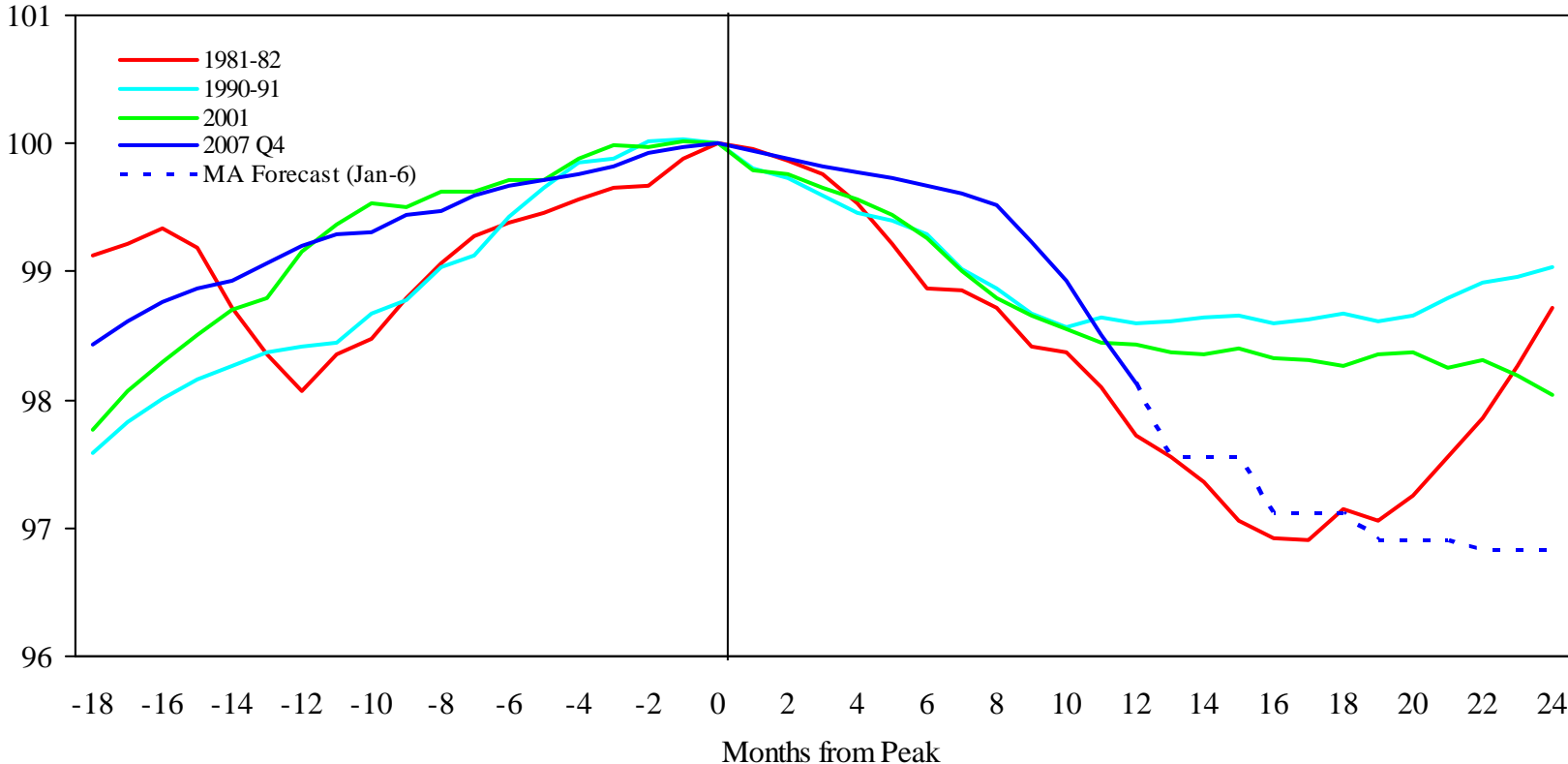
The Economy Today

- A sharp recession.
 - Declining output during 2008 Q4.
 - Further declines likely in 2009 first half.
 - Substantial job losses.



Nonfarm Payroll Employment Around Business Cycle Peaks

Index Peak = 100





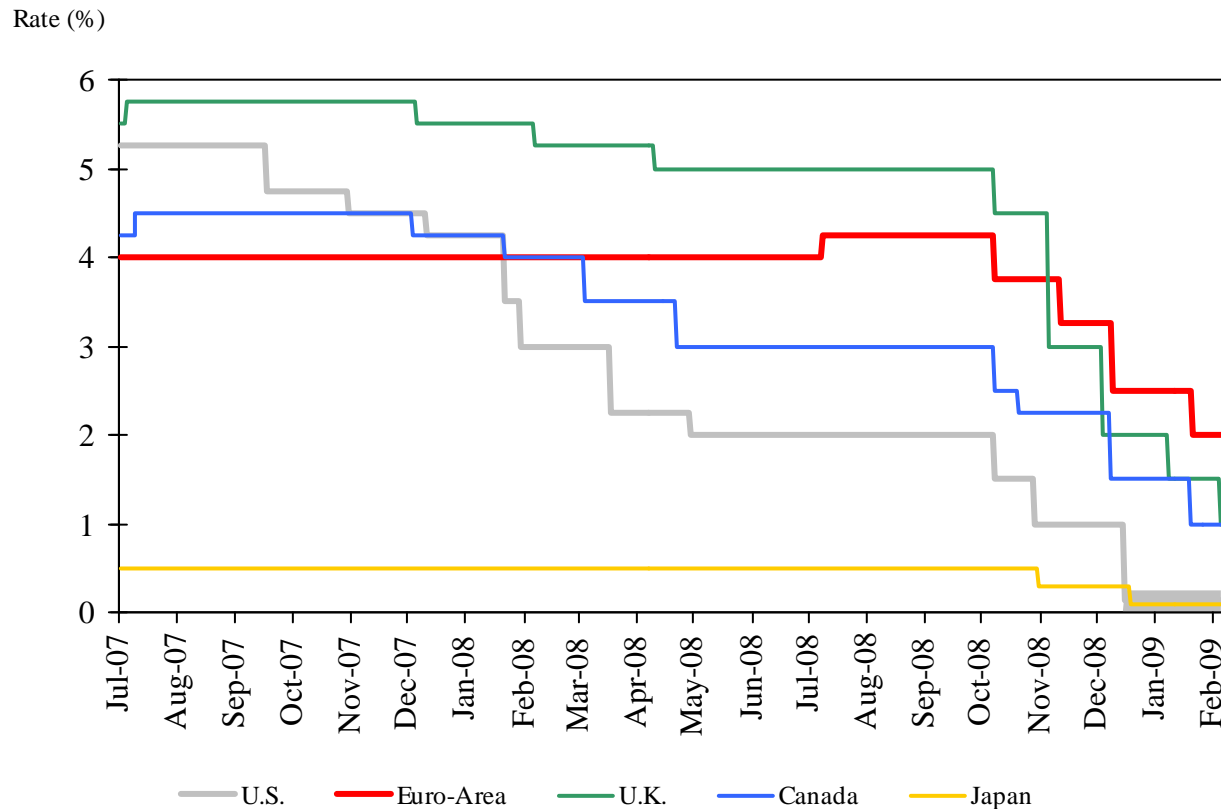
The Economy Today

- Important aspects.
 - Worldwide downturn.
 - Ongoing problems in financial markets.
 - Zero nominal interest rates.



World Policy Rates

(Daily data as of Feb. 5, 2009)





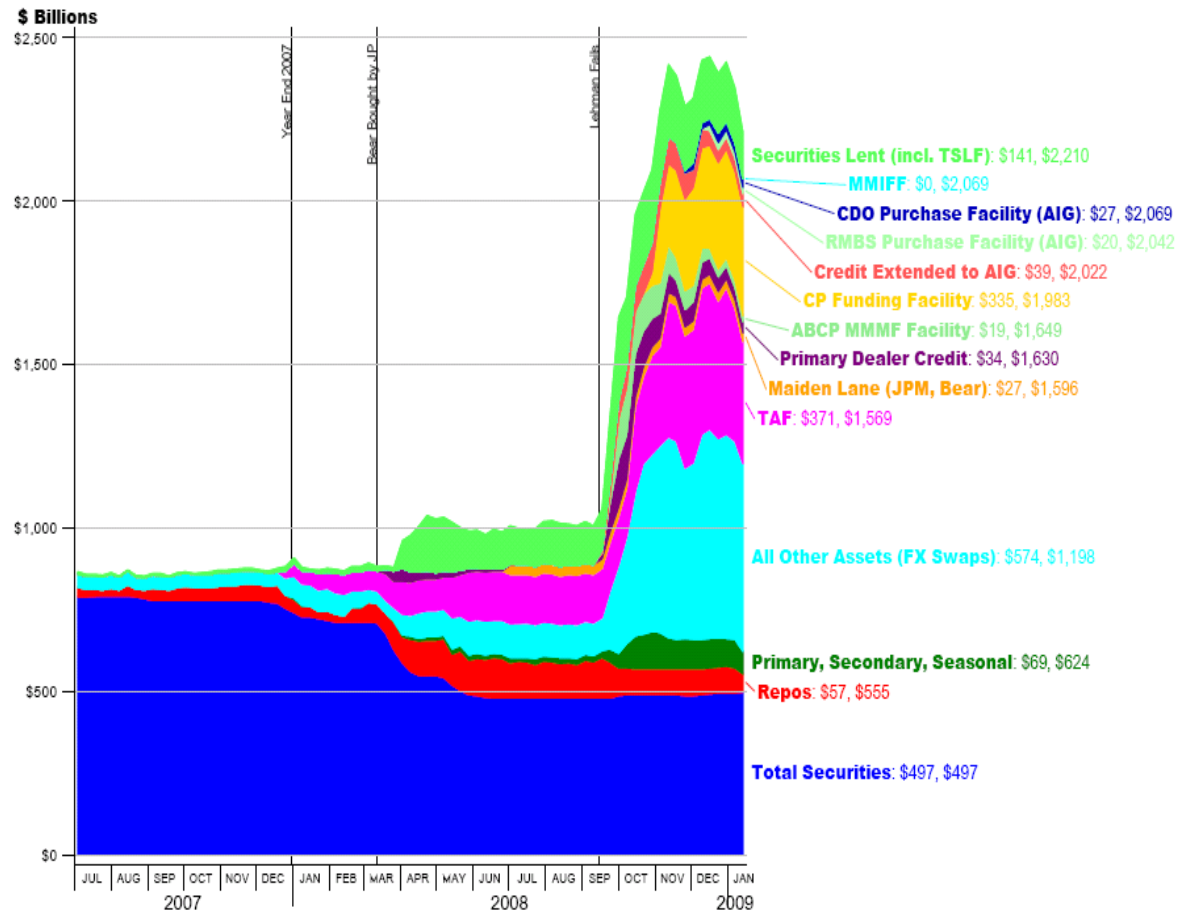
Monetary Policy Today

- Zero nominal interest rate policy.
 - Adopted during December 2008.
 - Takes nominal interest rate movements off the table for now.
 - Interest rates moving lower worldwide.
 - Fiscal policy is active.
- Alternative policies for the Fed.
 - Liquidity programs.
 - Announcements to keep rates low for some time.
 - Open market operations in agency MBS.
 - Extraordinary expansion of the monetary base.



Federal Reserve Credit

Component Size and Cumulative total. Weekly, 7/4/2007 to 1/14/ 2009





Main topics for today

- Conventional versus unconventional monetary policies.
- Ongoing financial market turmoil.
- Disinflation as a problem.
- Balance sheet expansion as a problem.



Conventional monetary policy

- Usually defined in terms of nominal interest rates.
- Private sector completely accustomed to thinking in these terms.
- This needs to change.
 - Normal times: Nominal interest rate targeting works well.
 - Exceptional times like today: Ability to signal to the private sector via nominal interest rate movements is lost.
 - Medium-run expectations for inflation can begin to drift.
 - No natural Fed move to make to head off inflation which is “too low.”



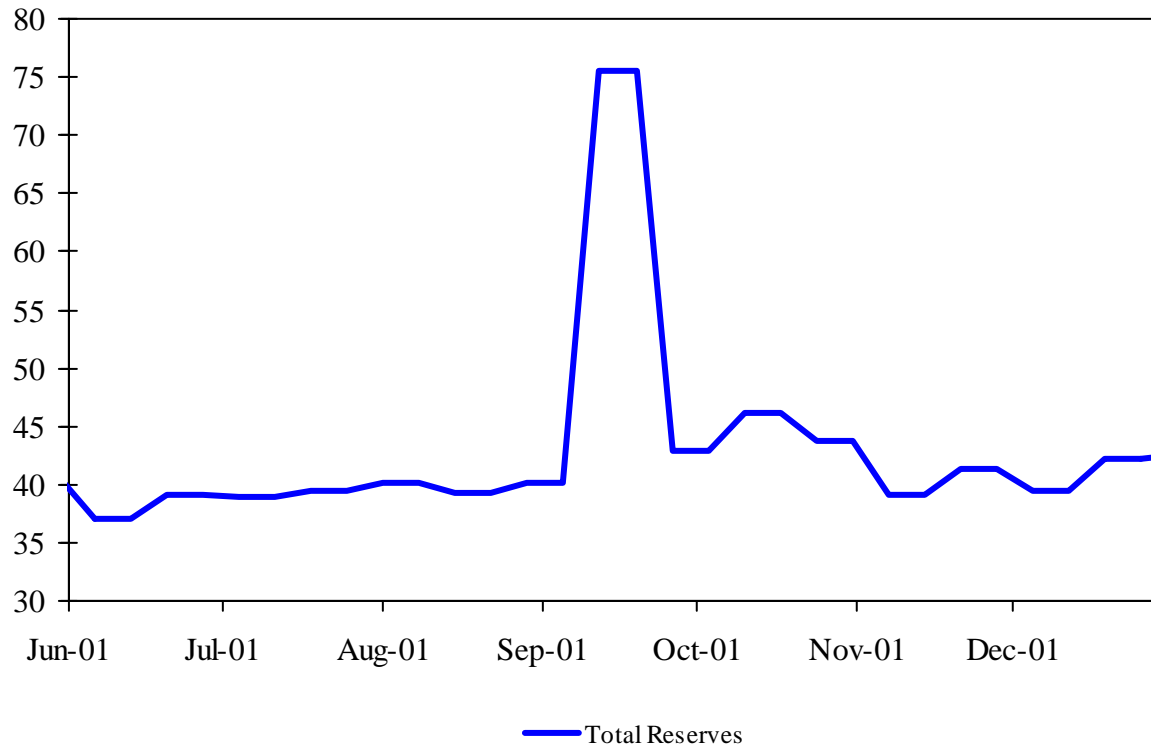
Conventional policy, part two

- Times of crisis and lender of last resort.
 - Central Banks often flood the banking system with reserves in times of crisis.
 - Once the crisis passes, the action is reversed.
 - The inflationary consequences of this type of action are minimal.
 - 9/11 was a great example.



Reserves of Depository Institutions around September 11, 2001 (Weekly data)

Billions of Dollars





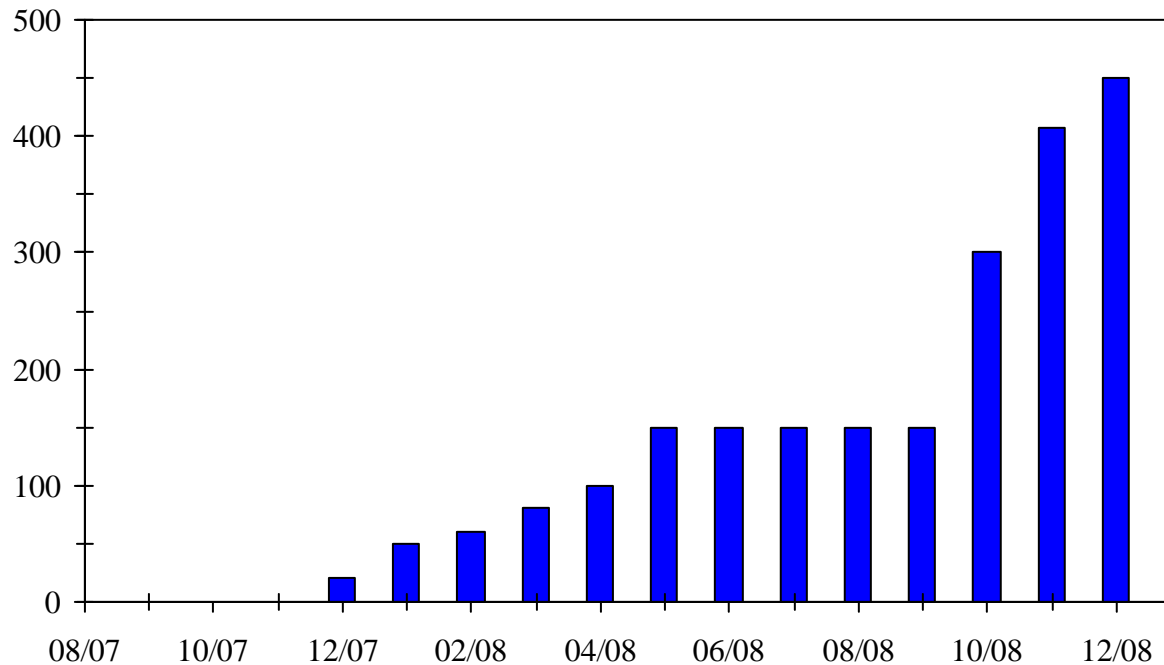
Innovative, unconventional policies

- The current financial crisis began in earnest in August 2007.
- The Fed continued to target nominal interest rates as usual during the first year of the crisis.
- The Fed also introduced new lending programs, such as the TAF, intended to reduce stigma and encourage bank borrowing from the Fed.
- Many other programs followed.



Term Auction Facility Credit

Billions of Dollars





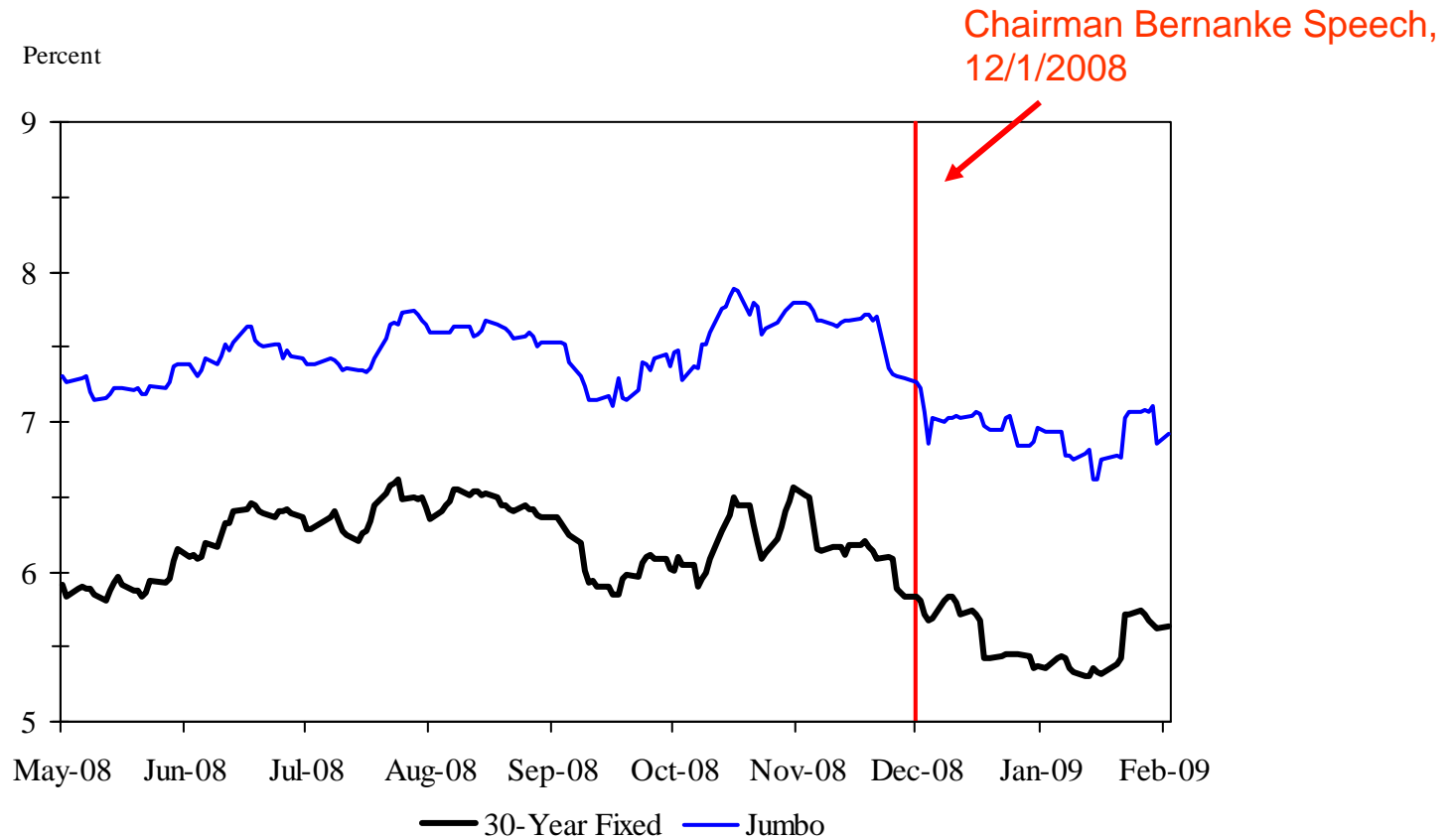
Unconventional policies, part two

- Beginning in September 2008, financial market turmoil intensified.
 - Part of the Fed's response was to flood the banking system with reserves.
 - This part is not so unconventional, as it is the normal central bank response to severe distress.
 - The scale dwarfs events like 9/11.
 - The time scale of the crisis is also much longer than normal.
- Meanwhile, with short-term rates at zero, the FOMC turned to alternative assets for open market operations.
 - In particular, agency MBS for \$500 billion.
 - The agency part also not so unconventional.



Mortgage Rates

(Daily data)





The Risk of Inflation

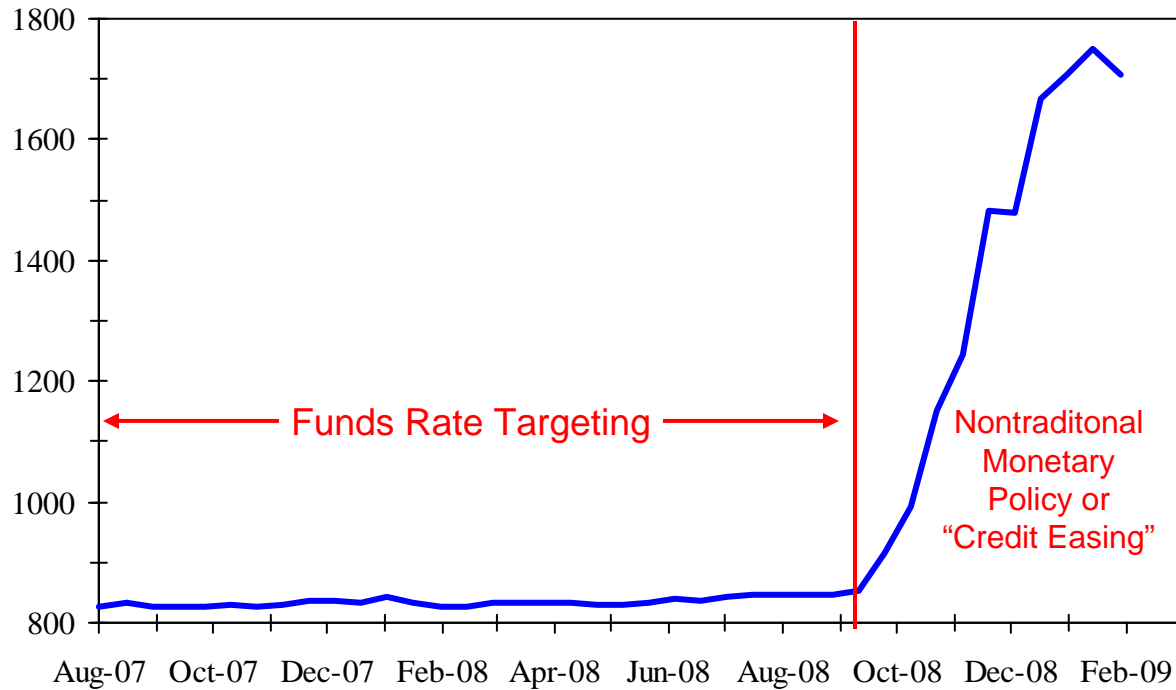
- The monetary base has increased dramatically in the U.S. since September 2008.
 - Deficit spending is increasing dramatically.
 - These would normally be considered inflationary developments – medium term.
 - How to stop this?



St. Louis Source Base

(Weekly data as of 1/28/2009)

Billions of Dollars





The Risk of Inflation: How to stop this?

- Reversibility.
 - Many of the newly introduced programs are temporary.
 - It seems the reserve build up could be reversed quickly and easily.
- Questions:
 - “Crisis” as a short event?
 - Criteria? What does normal look like, given that some segments of financial markets will not return?
 - Scale of the programs is large. A problem?
- Another idea: Set an inflation target.



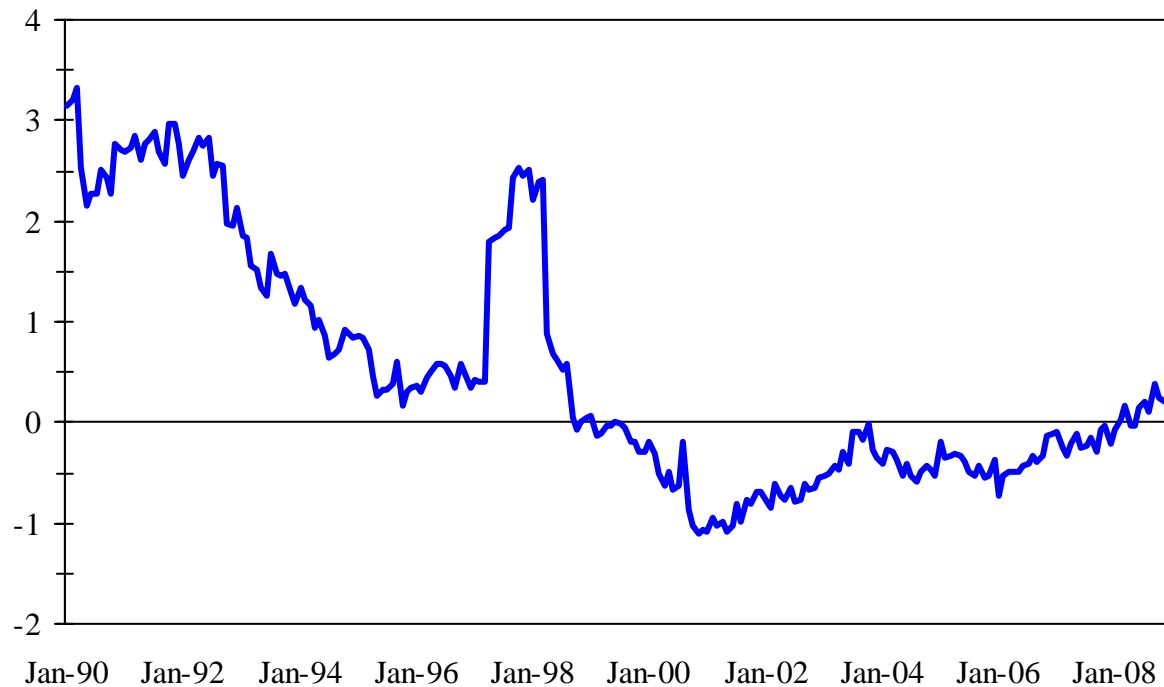
The Risk of Deflation

- An inflation target might also help prevent deflation.
- The Japanese experience has been unpleasant.
 - Clear problems in their banking sector in the 1990s, not unlike the U.S. today.
 - Deflation in year-over-year core numbers for much of the time since the mid-1990s.
- Why worry about deflation?
 - Nominal contracts, especially in housing.
 - Unexpected deflation would worsen the situation.



The Japanese Experience: Consumer Price Index Less Food and Energy

Percent Change
from a Year Ago



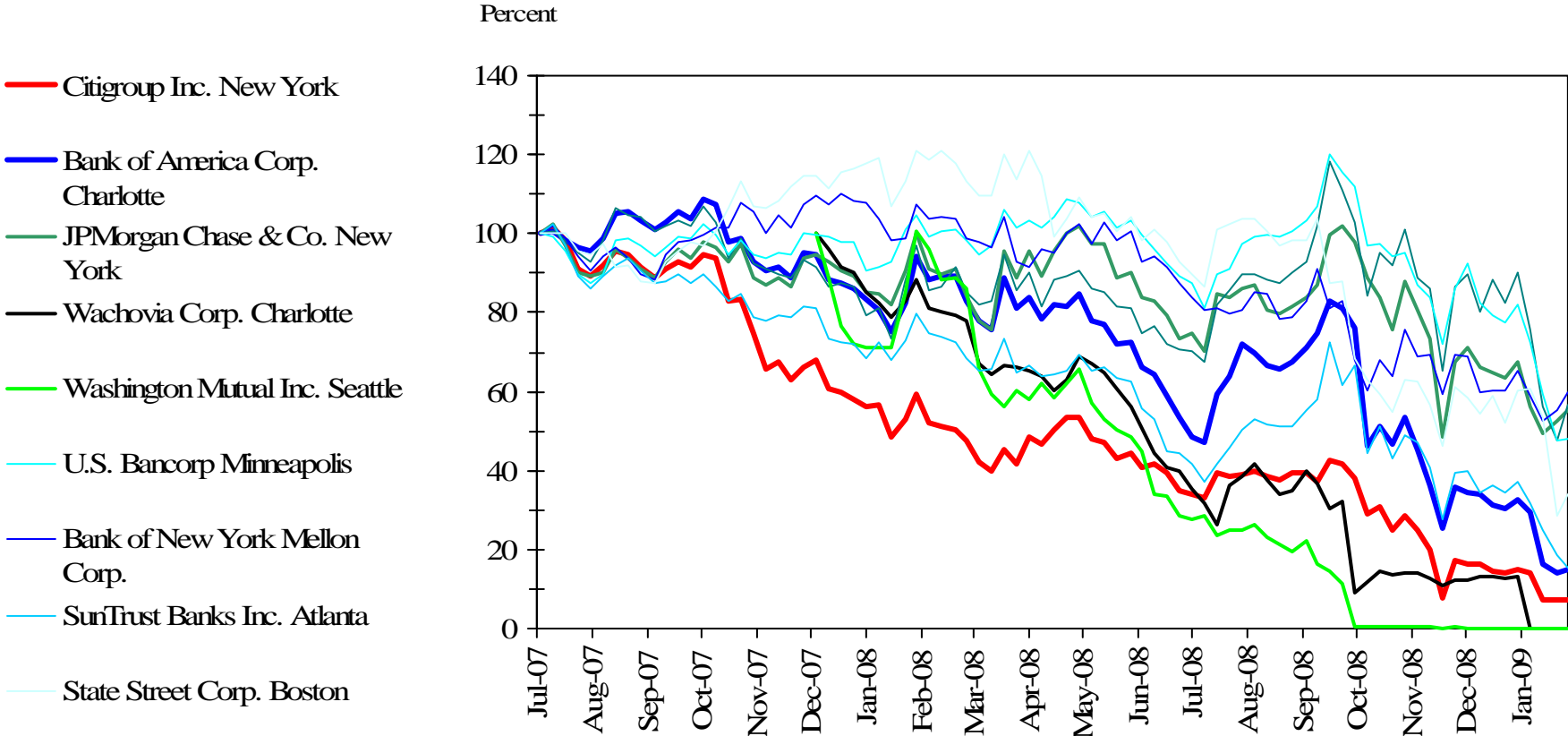


Ongoing financial market turmoil

- Financial market turmoil looks set to continue into 2009.
- Sustained growth probably cannot return until financial markets stabilize.
- Time may not be a healer.
 - The information problems permeating markets do not naturally go away.
- Sharp recession has contributed to a new round of losses.
- Information problems need to be addressed directly.



Weekly Stock Prices of 10 Large US Banks





Financial market oversight

- Regulatory reform in the wake of this crisis is a global issue.
 - It will take time to design a reform that has a chance of working.
 - Large financial firms will have incentives to avoid rules by locating elsewhere.
- Parts of the regulatory system work well today.
 - The depression-era smaller bank panic has not occurred.
 - The combination of deposit insurance and prudential regulation has worked well in this sense.



Financial market oversight, continued

- Non-bank financials turned out to be susceptible to “bank runs.”
 - Short-term, collateralized creditors ran on large investment banks.
 - This problem is not easy to fix: “deposit insurance plus regulation” does not make sense.
- Access to the discount window should be tied to Fed regulation.
 - Information flow is critical for responsible Fed lending.
 - Information flow is also critical for informed monetary policy.



Conclusions

- A time of very fluid, volatile expectations.
 - We know expectations are a major factor in macroeconomic performance.
- The Fed is pursuing a set of less conventional policies.
 - The quantitative effects are more uncertain than normal.
 - The zero nominal interest rate takes away the Fed's ability to signal.
 - But the less conventional policies are every bit as powerful.
- Optimal financial market oversight is a difficult problem.
 - It will not be easy to design a reform that works.



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