The Credit Crisis

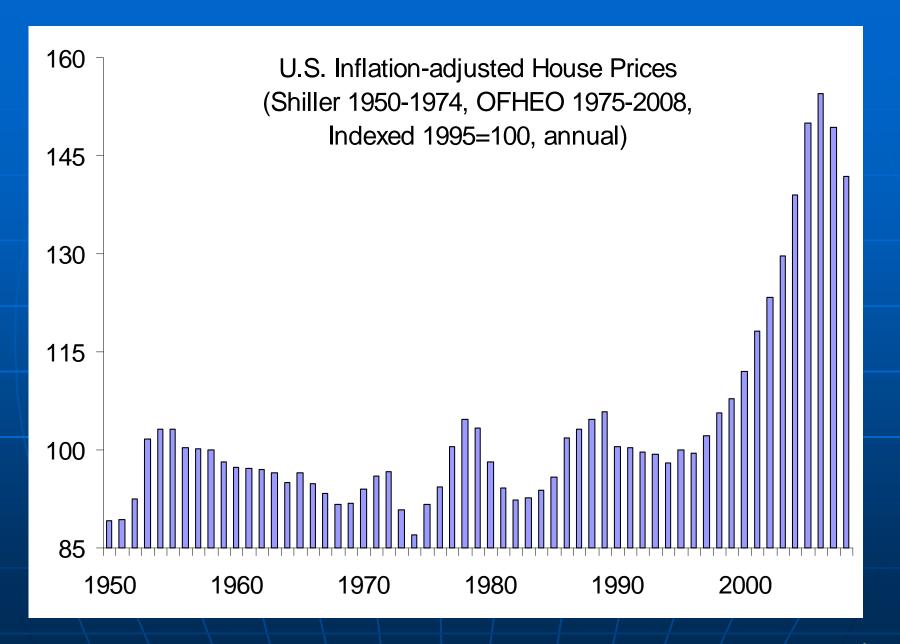
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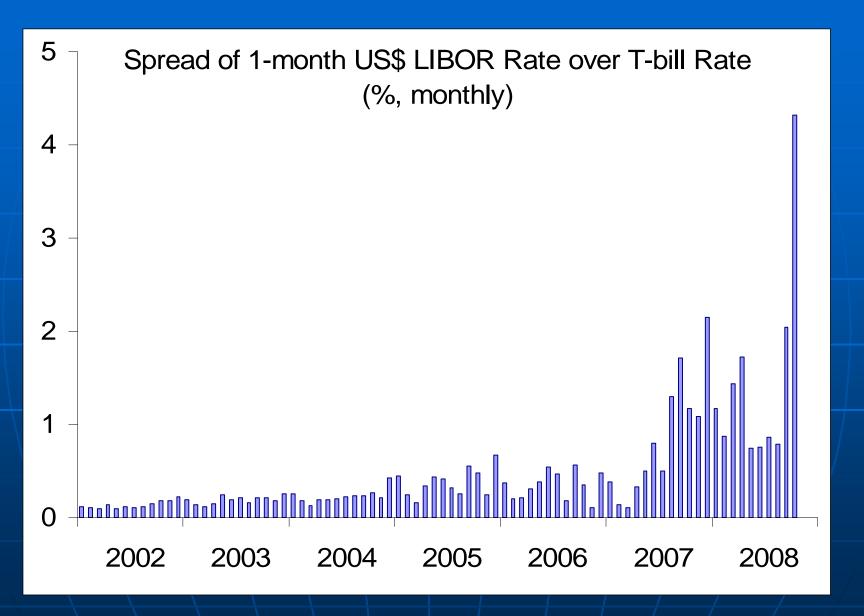
Prelude to the Credit Crisis

- Increase in worldwide supply of funds
- Stimulative monetary policy in the U.S.
- Lax lending
 - Perceived risk reduction due to Great Moderation?
- House prices bubbled up... a lot
 - In the U.S.
 - In Ireland, Spain, U.K.
- House prices fell...quite a lot ...in some places



Intertwined Solvency and Liquidity Concerns about FIs

- Now, mortgage loan losses loom large at financial institutions (FIs)
 - Banks, hedge funds, bond funds, investment banks, pension funds, insurance companies, etc.
- Still, great uncertainties
 - About how large and which FIs have losses
 - About how large losses might become
- Uncertainties reduced FIs' lending to each other
 - Markets for LIBOR, fed funds, commercial paper, etc.

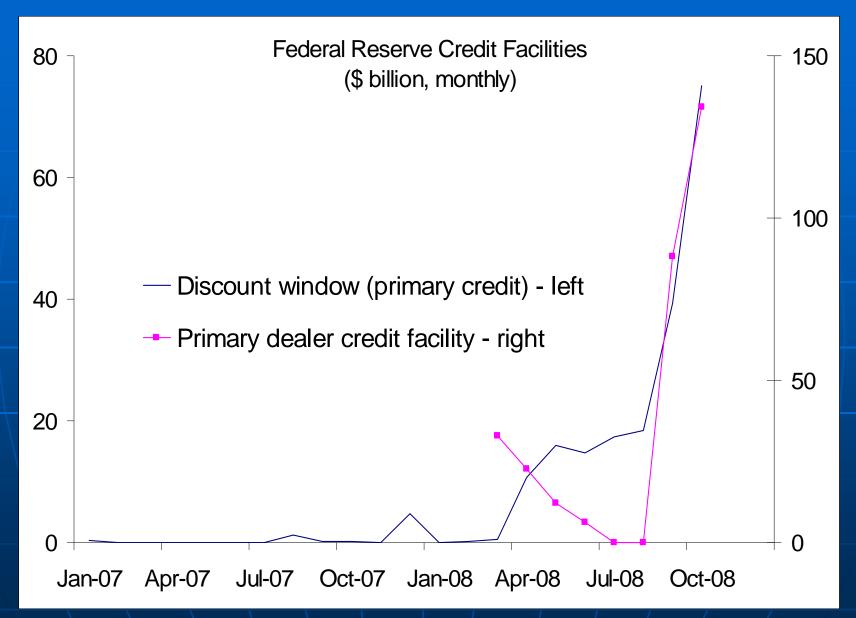


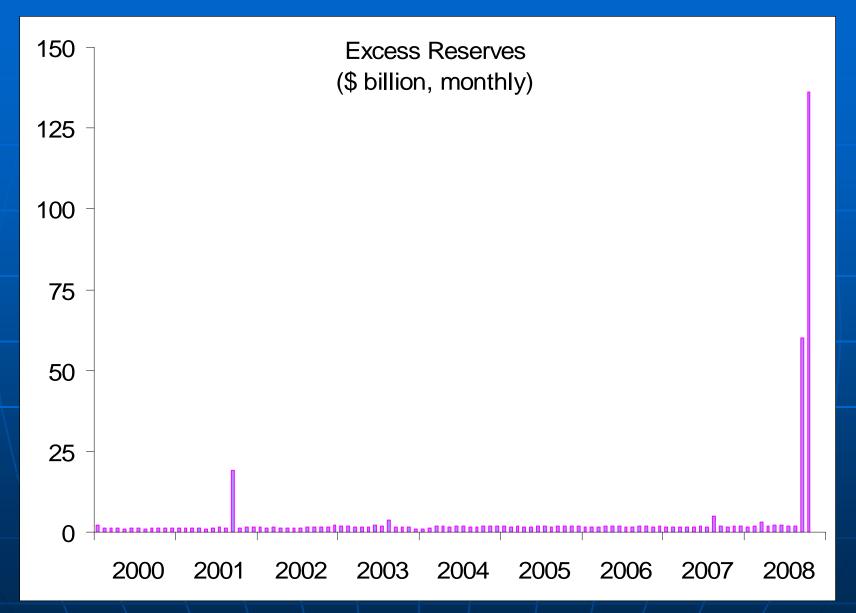
Old-Fashioned Runs on "New-Fashioned Banks"

- Insolvency risk has raised liquidity risk
 - Raises risk that funds run
 - à la "It's a Wonderful Life"
- Runs on banks, MMMFs, hedge funds, bond funds
- Runs can convert illiquidity into insolvency
 - Selling assets to raise cash leads to lower, "fire-sale" prices
 - At fire-sale values, FIs are likely insolvent
 - Billions "ran" from Schwab Ultra-short bond fund
 - Last out maybe got less than 80, first got about 100 cents per dollar

Scramble for Liquidity

- Many fear that everyone else will run
 - Via withdrawals or not renewing short-term loans
- Incentive for each of us to run before other guy
 - Everyone can't run before the fire sale
- Fear of runs led FIs to scramble for liquidity
 - Hold more "cash" just in case (such as T-bills)
 - Banks can trade loans for cash at Federal Reserve
 - Replace running funds with stable funds from Fed



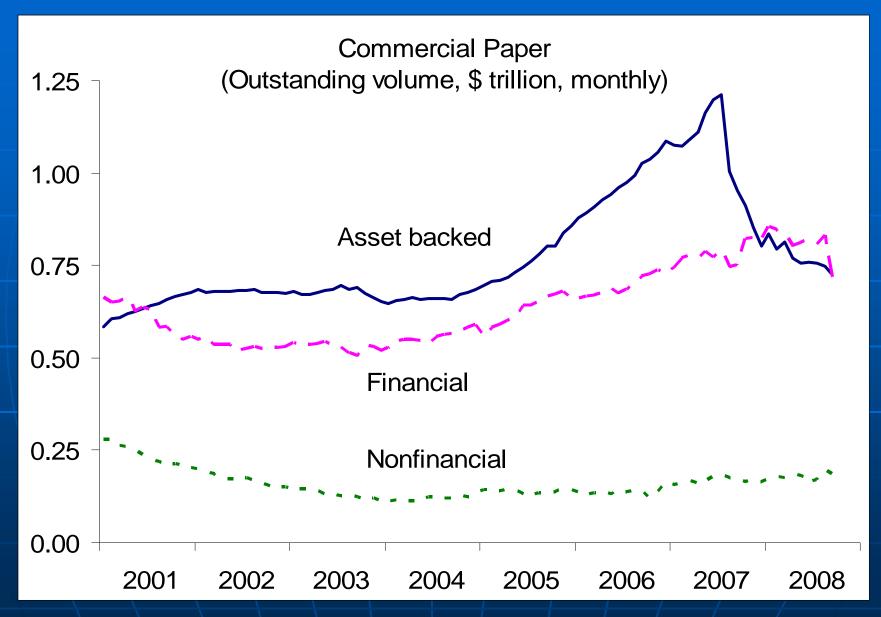


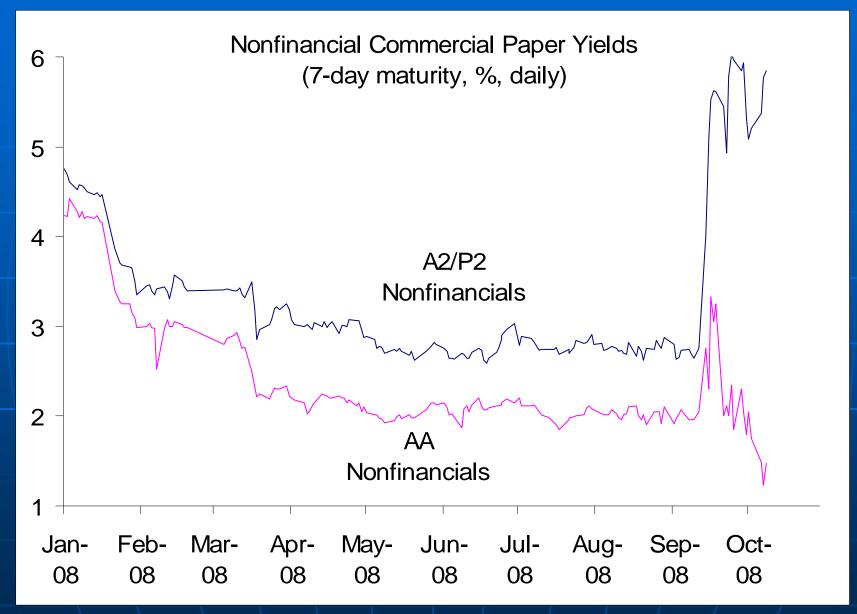
"De-leveraging" and "Re-capitalizing"

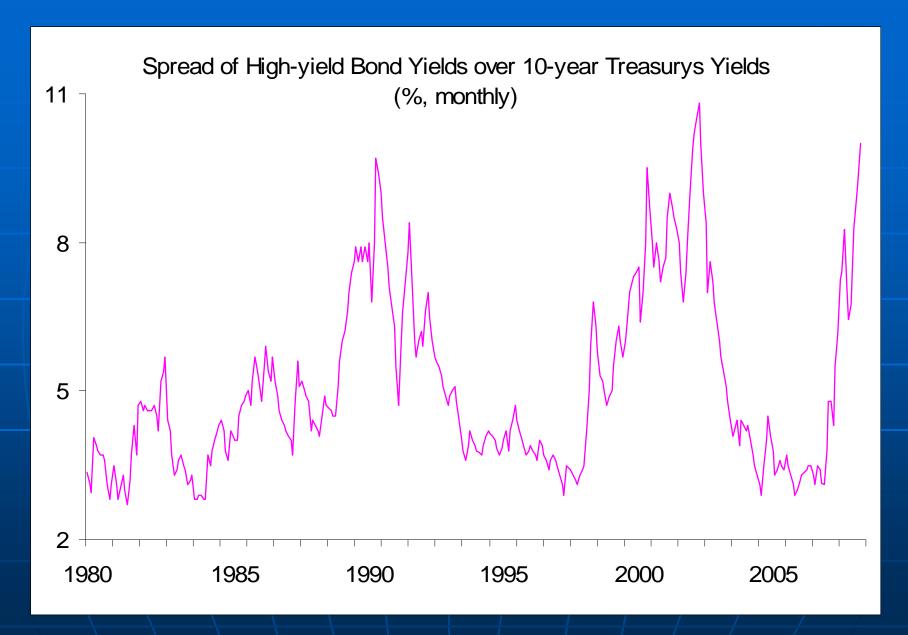
- In addition, FIs are aiming for less debt
 - Now, leverage seems riskier than it did before
 - Reduces FIs' borrowing of funds-and thus lending
- More capital can avert less lending
 - Add equity, rather than subtract debt
- Taxpayers want some upside from Rescue Plan
 - Can get it by buying shares or warrants in banks
 - Via outright purchases
 - Via Treasury auctions

Freezes: Credit Markets and Loans

- Banks reluctant to make or buy loans
 - Making loans means letting go of cash
 - If can't sell assets, FIs reluctant to acquire them
 - FIs can build liquidity by not re-loaning the funds as loans are paid
- FIs less willing to lend to FIs--and to non-FIs
- "Loan run" now on fear of less lending later
 - Precautionary, not productive, borrowing





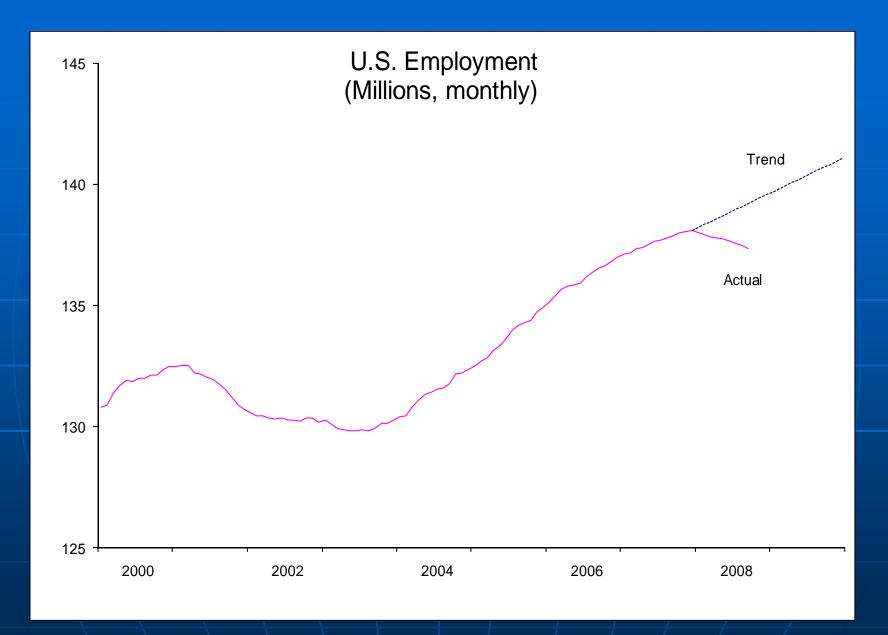


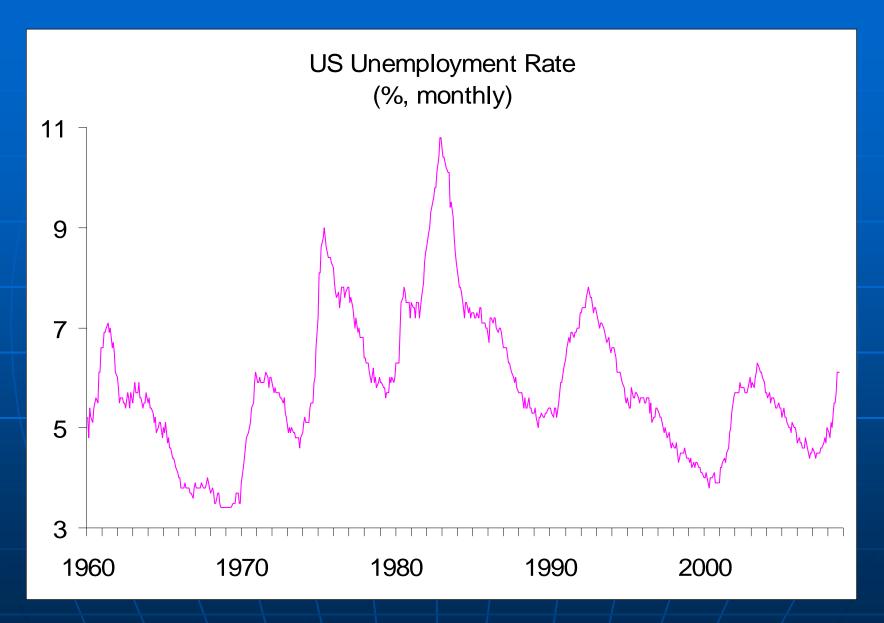
2½ Cheers for the Rescue Program (so far)!

- Quelled credit market panic of mid-September
- Authorizes Treasury to buy assets
 - Designed to "prime the pump"
 - More lending if loans are liquid when markets thaw
 - To produce prices "fair" to sellers and buyers
 - More clarity re: solvency: Some strong, some gone
 - When assets sold, cash perhaps then lent out
 - Apparently, will include purchases of bank stock
 - Later, like RTC, Treasury sells off all assets

Next, Expensive Programs?

- Mortgage balance reductions?
 - Via bankruptcy law changes?
- Rate reductions via refinancing?
- Tax credits for buying a house during 2009?





The Outlook: Look Out!

	2007 (Actual)	2008 (Estimated)	2009 (Projected)
GDP (growth, real, %)	2.0	1.5	1.0
Unemployment rate (%)	4.6	5.7	7.3
Federal funds rate (%)	5.0	2.0	1.5
Federal budget deficit (\$ billion)	162	450	720
Inflation rate (%)	2.9	4.2	2.2
Residential investment (growth, real, %)	-19	-20	-2