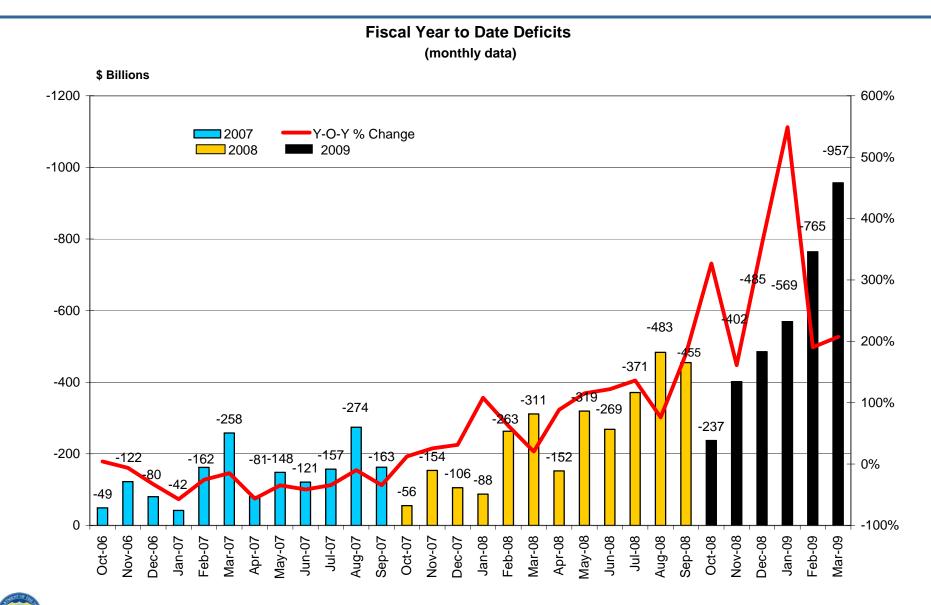
Presentation to the Treasury Borrowing Advisory Committee



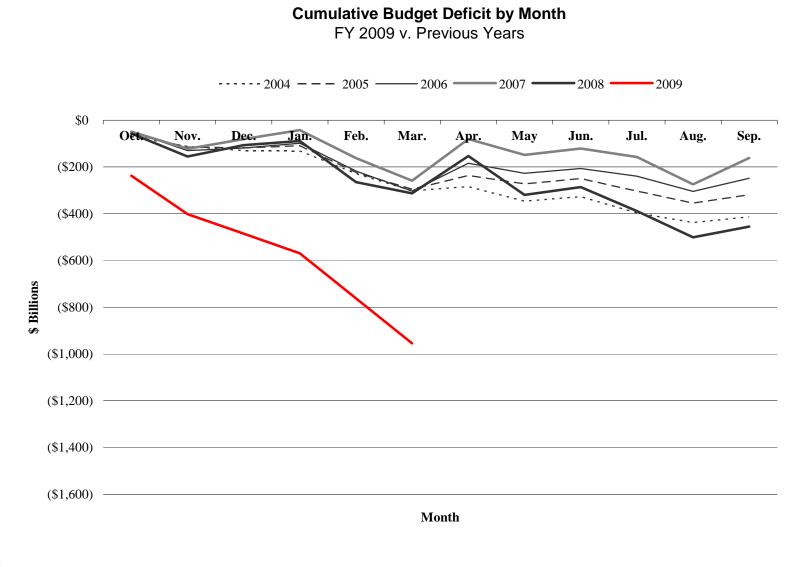
U.S. Department of the Treasury Office of Debt Management April 28, 2009

Borrowing requirements continue to grow

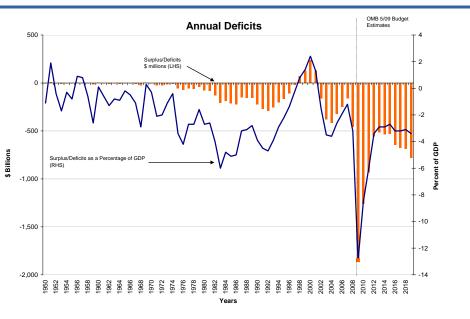


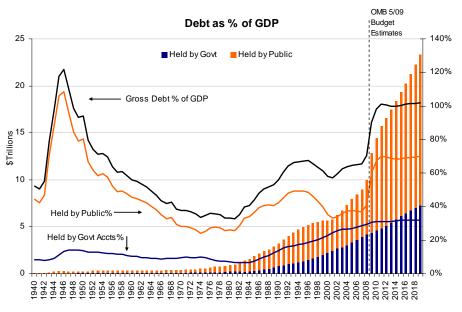
Office of Debt Management

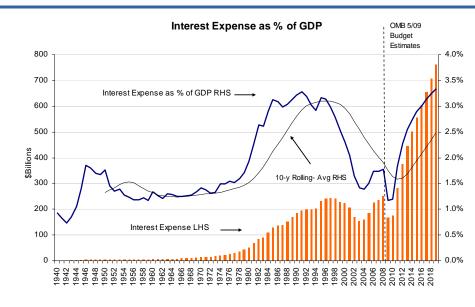
The budget deficit to date has increased unabated through the first two quarters of fiscal year 2009

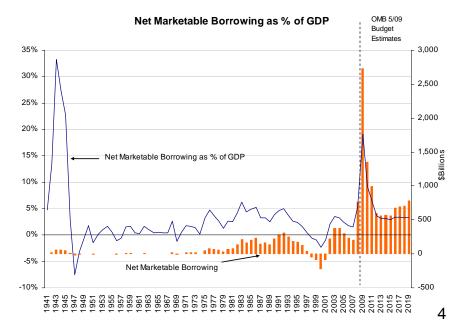


Based on initial OMB guidance in May 2009, elevated borrowing needs remain for the next few years

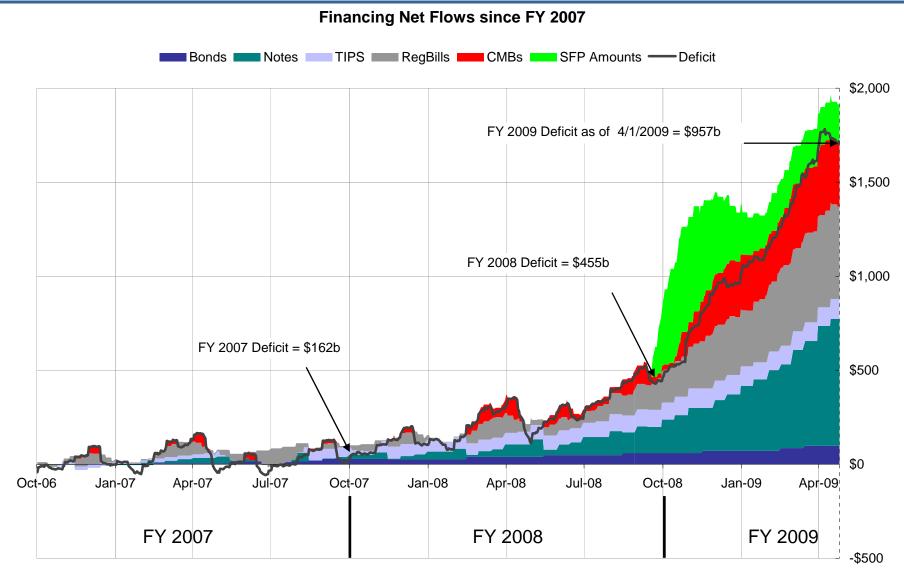








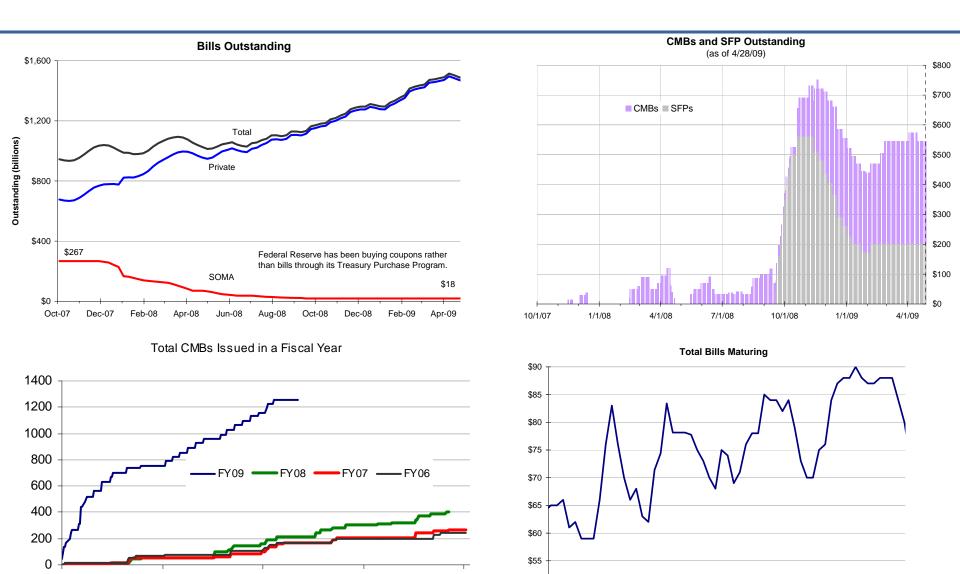
Treasury has responded to these financing needs in a regular and predictable manner



Office of Debt Management

Date

SFP and immediate funding needs have led to higher bill issuance



9/25

\$50 +----Mar-08

Jun-08

Sep-08

Dec-08

Mar-09



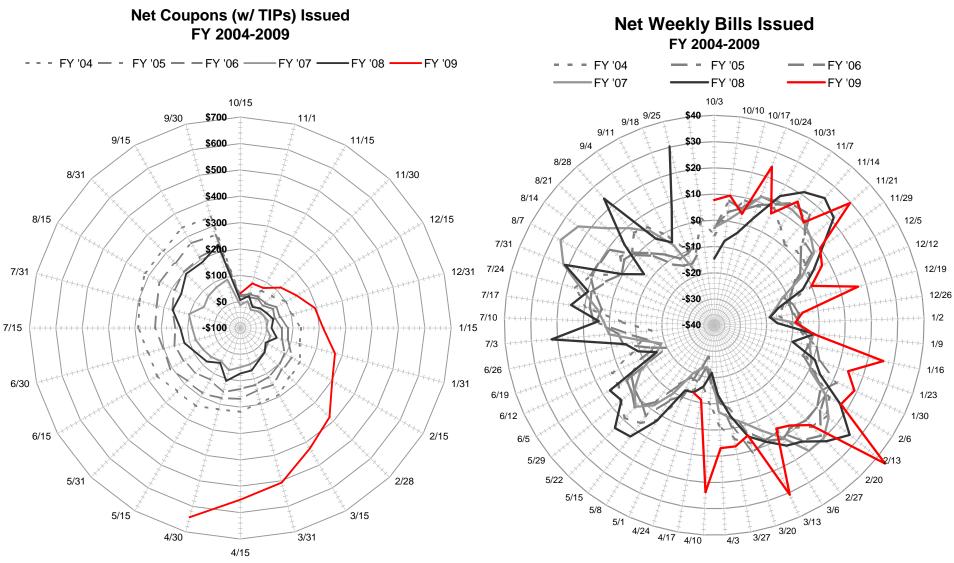
10/1

12/30

3/29

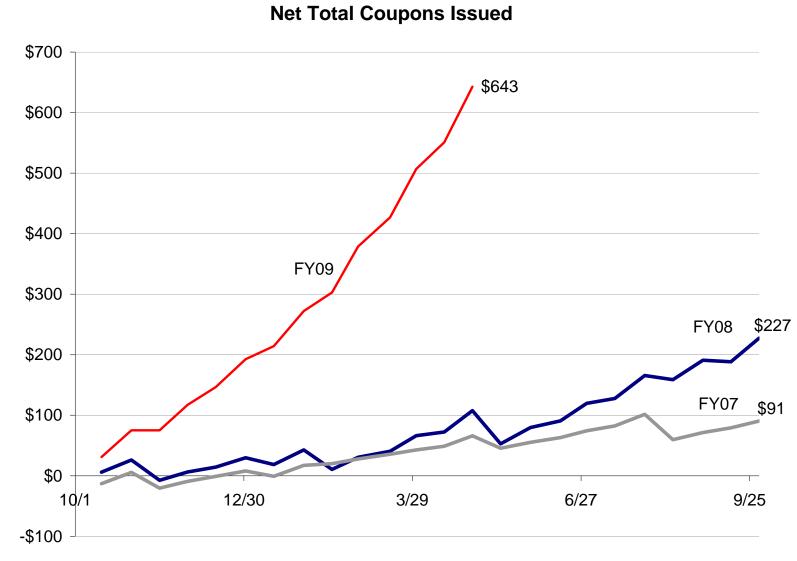
6/27

However, Treasury continues to transition to longer term financing, increasing net borrowing from coupons relative to bills





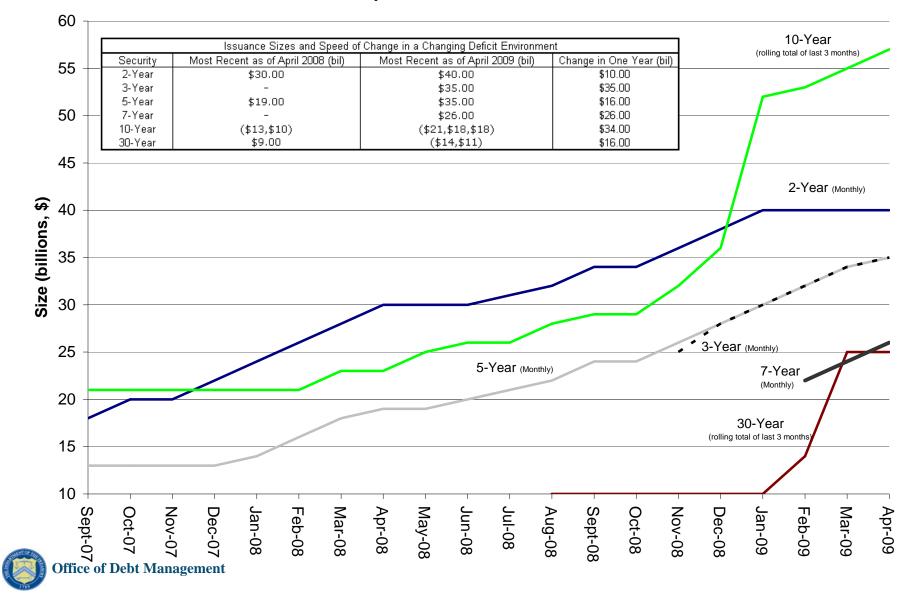
This has resulted in significantly higher nominal coupon issuance than in previous years



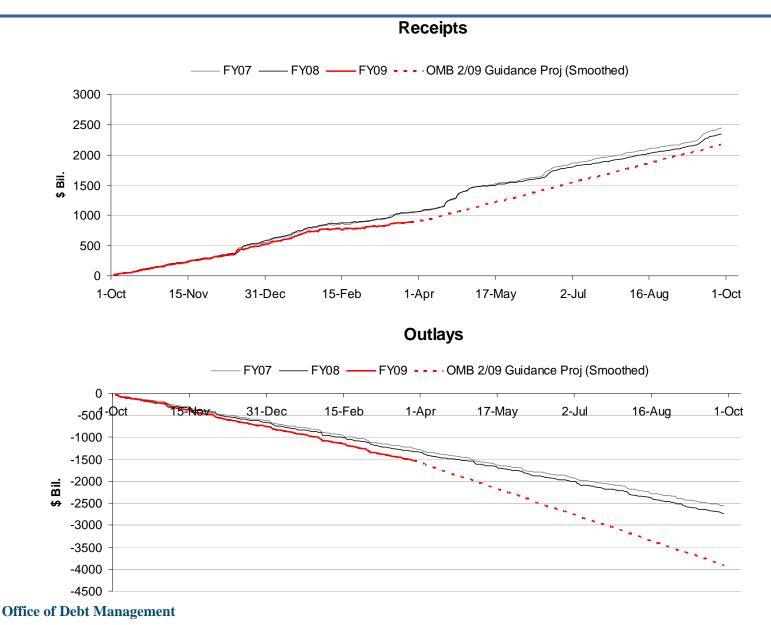


Existing coupon securities continue to increase to larger, more liquid benchmark sizes in a gradual, predictable manner

Coupon Issuance in 2007-2009

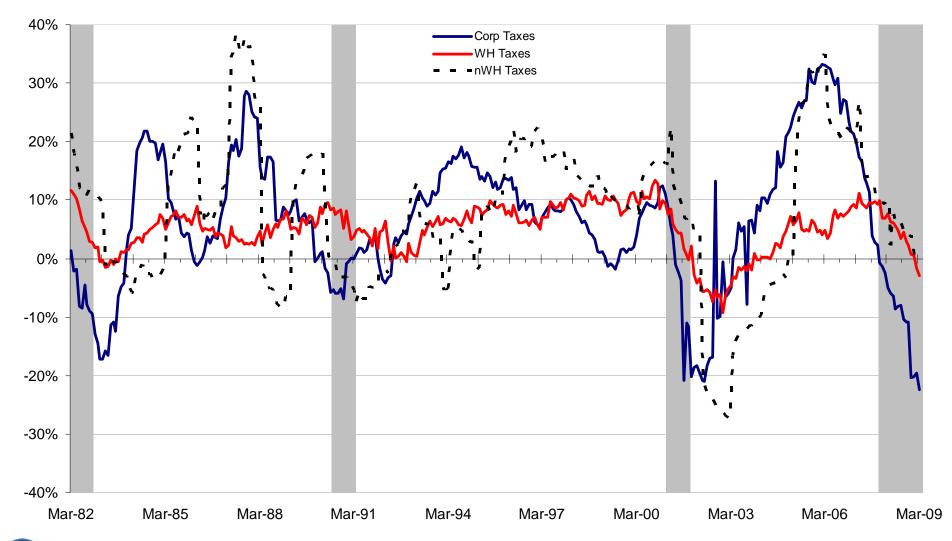


In the second quarter of FY2009, year-over-year growth in receipts was negative while outlay growth accelerated



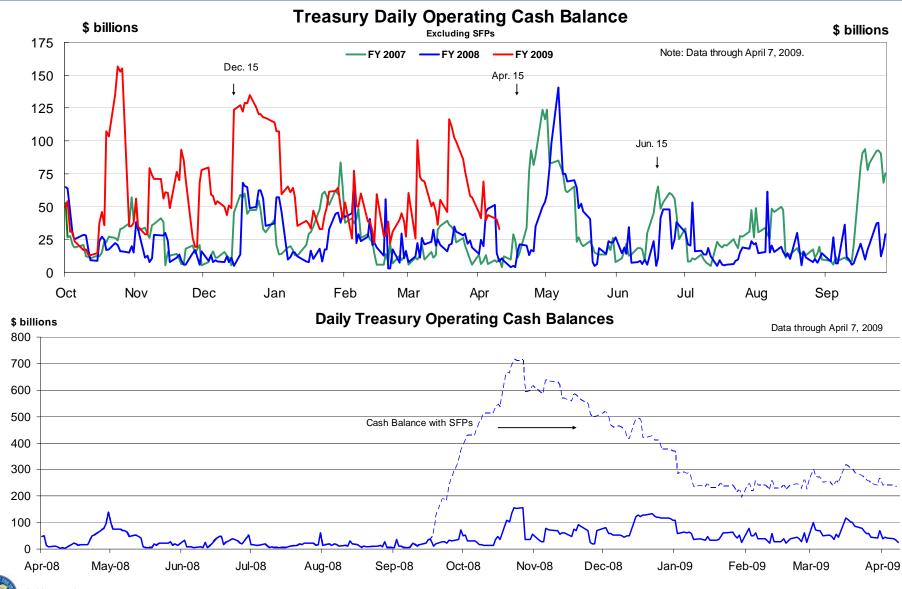
The decline in corporate tax receipts is similar to that experienced in 2002 – such declines generally precede lower growth in individual receipts

Rolling 12-Month Growth Rates



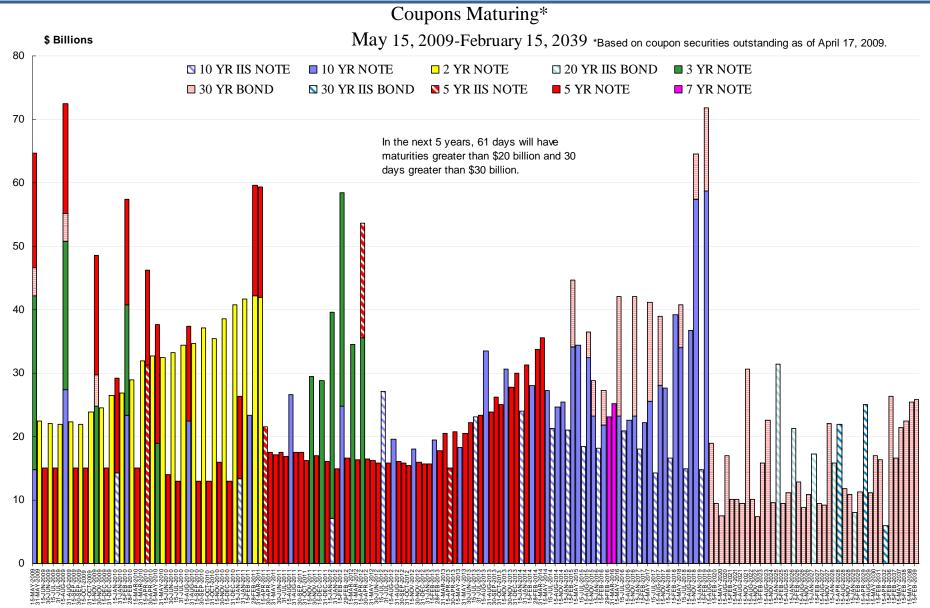
Office of Debt Management

Cash balances remain elevated and volatile

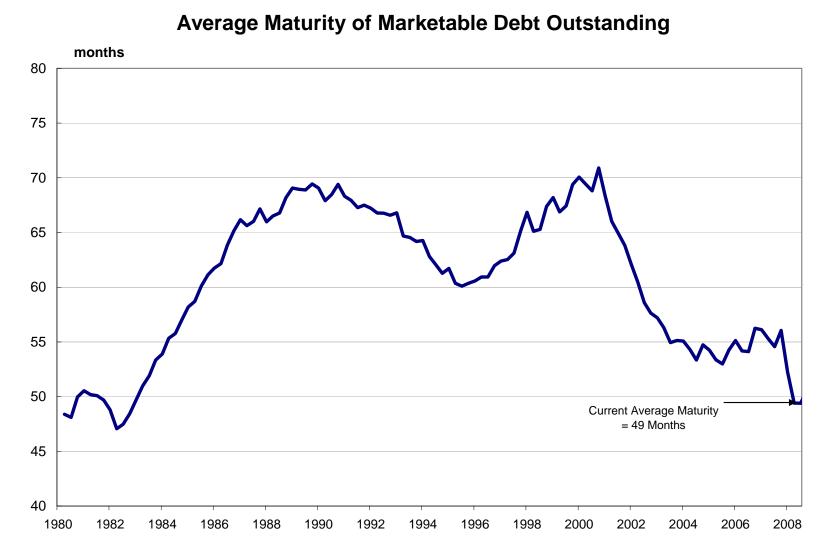


Office of Debt Management

Larger concentrations of maturities occur in the 3-year sector and then again at the 10-year sector



The average maturity of the marketable debt outstanding leveled in the second quarter of FY 2009 as short-term issuance stabilized





Primary dealer estimates of the FY 2009 deficit rose by \$150 billion from the estimate provided during the February 2009 refunding

| Borrowing Estimates | | \$ k | |
|--|-----------|-----------|-------------|
| | Primary | | |
| | Dealers* | СВО | OMB |
| Current FY 09 Deficit: | 1745 | 1667 | 1752 |
| Range based on average absolute forecast error** | 1687-1803 | 1567-1767 | 1648-1856 |
| Estimates as of: | April 09 | March 09 | February 09 |
| | | | |
| FY 2009 Marketable Borrowing Range*** | 1655-2700 | | |
| FY 2010 Marketable Borrowing Range*** | 1040-1900 | | |

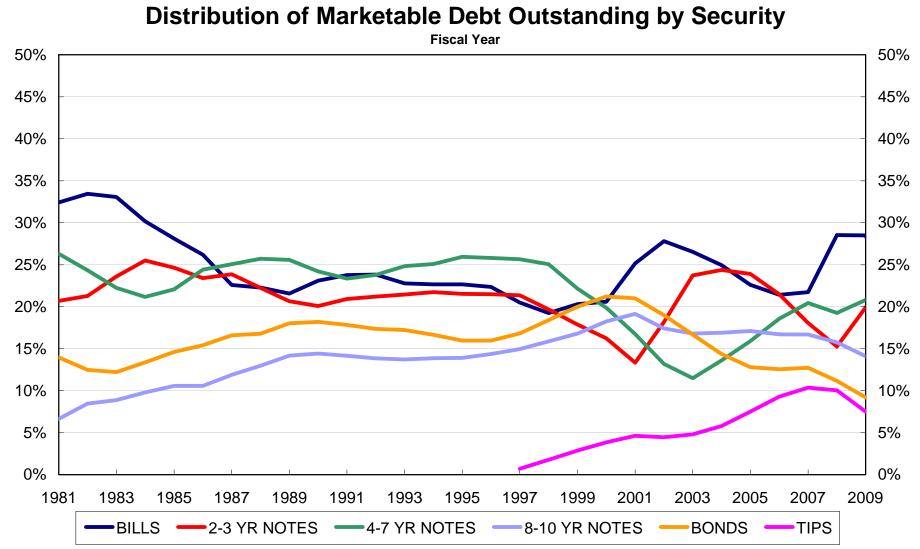
* Primary Dealers reflect average estimate. Based on Primary Dealer feedback on April 23, 2009.

** Ranges based on errors from 2004-2008.

*** Based on Primary Dealer feedback on April 23, 2009.

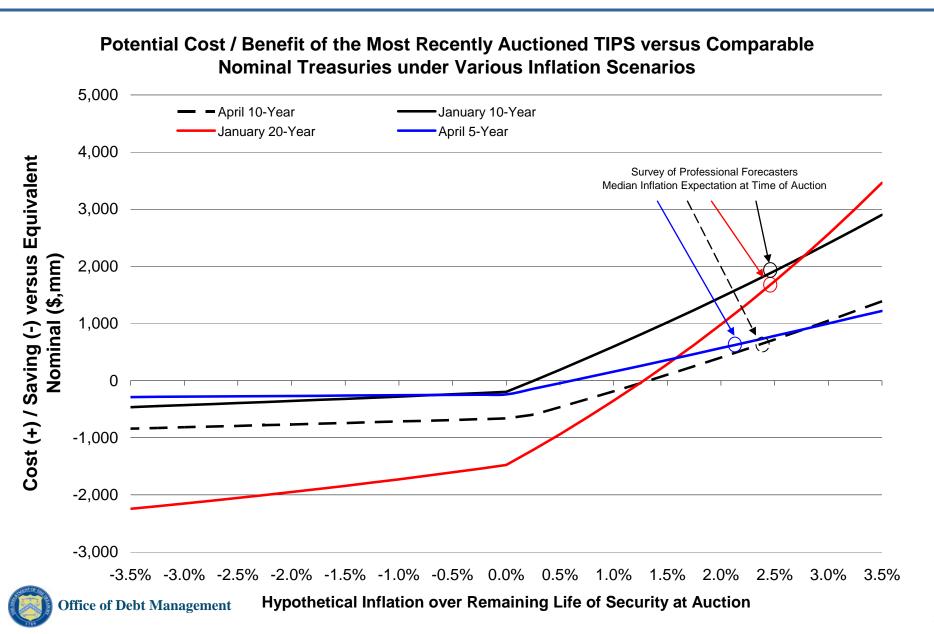


The share of 2-7 year nominal coupon securities outstanding has increased while that of bills outstanding has flattened

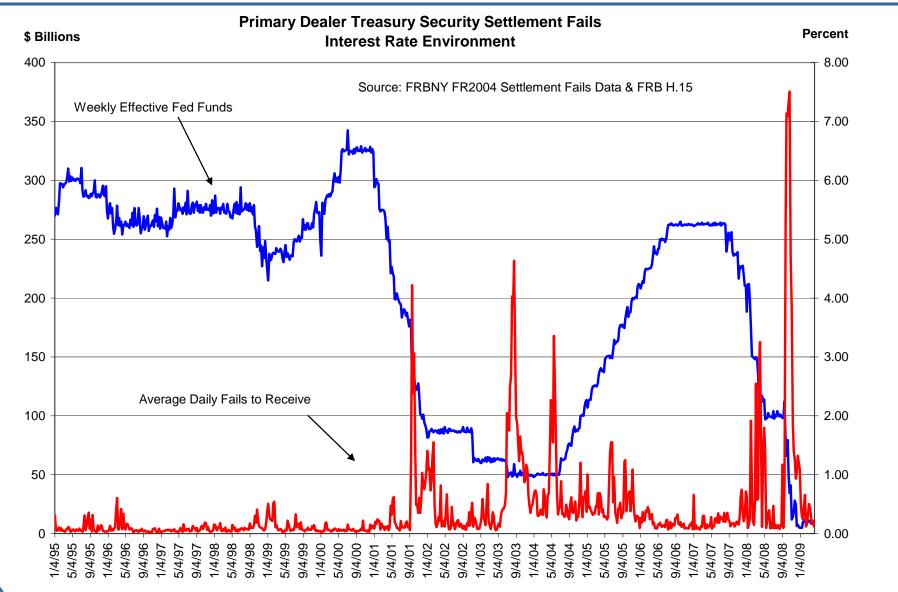


*Net financing projections for FY 2009-2019 are based on the preliminary OMB 2010 Budget estimates released February 2009. Future residual financing needs are spread proportionally across auctioned securities and are derived from hypothetical auction sizes. Initial sizes are based on announced coupon amounts as of April 17, 2009 and assume the outstanding level of bills on March 31, 2009. All <u>projections</u> exclude CMB issuance and maturing amounts.

Treasury continues to monitor developments in inflation-indexed markets

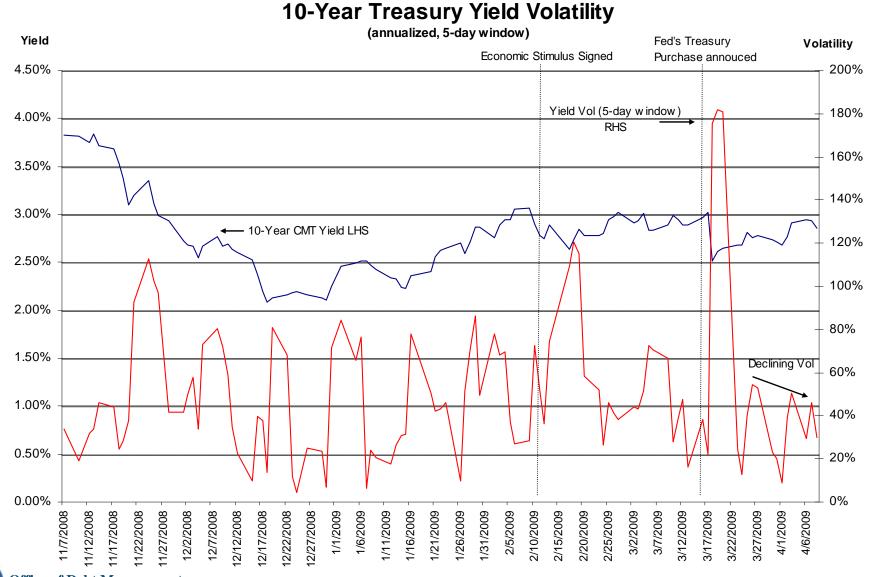


The Treasury repo market, after experiencing dislocations, has readjusted

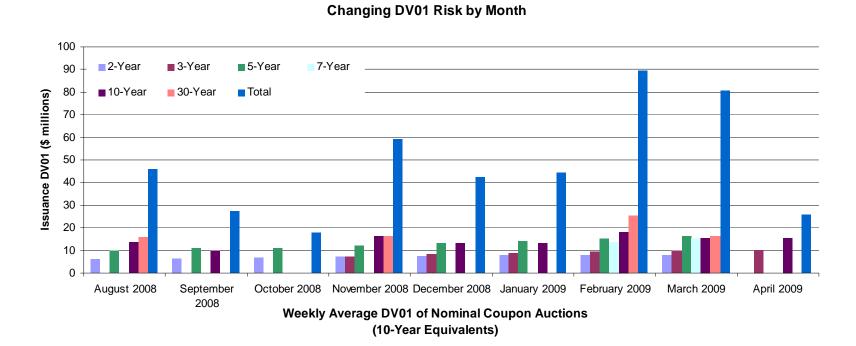


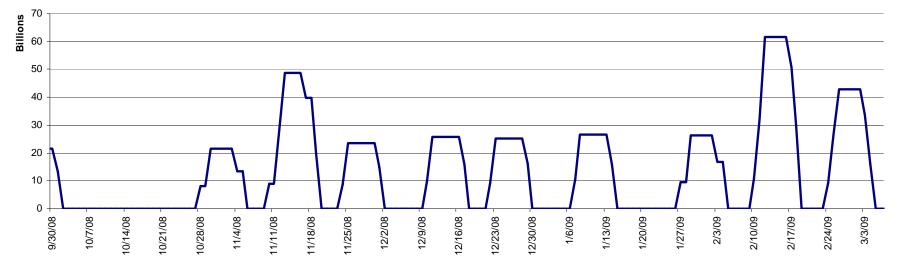


Volatility has remained range bound since the announcement of Fed purchases of Treasuries



DV01 has been increasing steadily with declining yields and increasing auction sizes



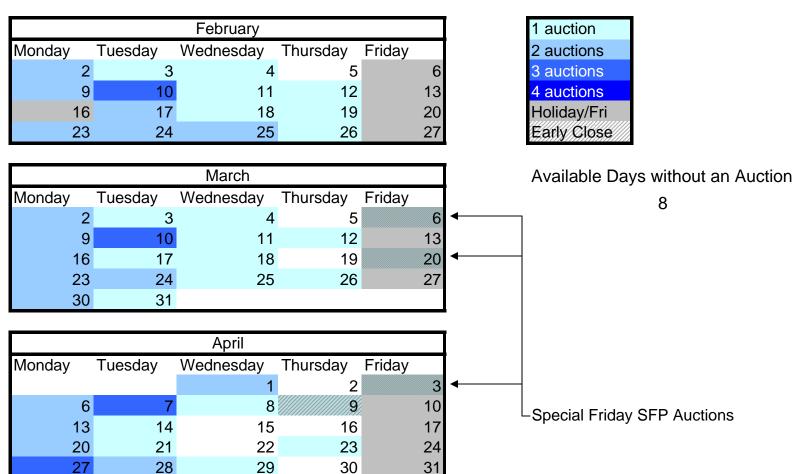


The current auction calendar has addressed recent changes in borrowing needs

| Announce | Announced through 4/23/09 | | |
|--|--|--|--|
| Security | Recent Size, \$ Billions | | |
| 4-week, 13-week, and 26-week bills | 20, 29, 28 | | |
| 52-week bills | 25 | | |
| 2-year note | 40 per month | | |
| 3-year note | 35 per month | | |
| 5-year note | 35 per month | | |
| 7-year note | 26 per month | | |
| 10-year note | 57 (21 initial + 18 + 1st reopening + 18 2 nd reopening) | | |
| 30-year bond | 25 (14 initial + 11 reopening) | | |
| 5-year TIPS | 14 (8 initial + 6 reopening) | | |
| 10-year TIPS | 14 (8 initial + 6 reopening) | | |
| 20-year TIPS | 14 (8 initial + 6 reopening) | | |
| Cash Management Bills (including SFP) | 34 (average size in FY 2009) | | |



The calendar for the recent quarter reflects the frequency of auctions as Treasury accesses the capital markets



Supplementary Financing Bills Applied for Q2 FY09



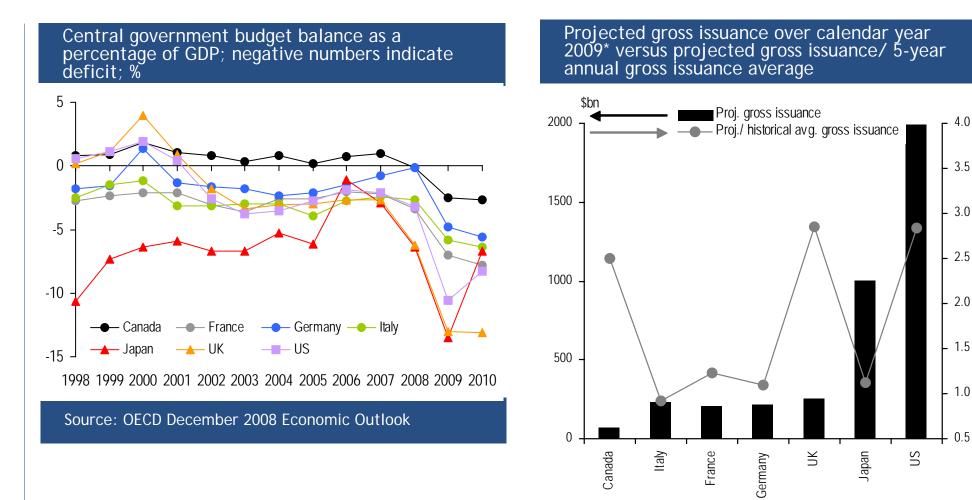
In recognition of both short, intermediate, and long term financing needs, as well as recent guidance provided by the Office of Management and Budget and other agencies, what adjustments to debt issuance, if any, should Treasury make in consideration of each of these horizons at this time in terms of adjustments to size, frequency, or instruments?



Treasury Borrowing Advisory Committee Presentation to Treasury

April 28, 2009

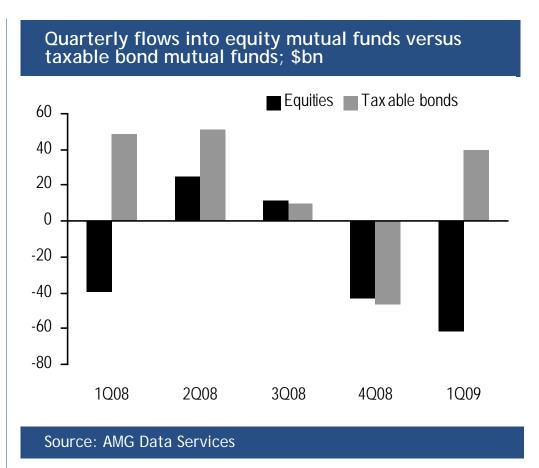
Deficits and sovereign debt supply are rising in several G7 countries



* Gross issuance includes only long-term debt (i.e. debt issued with original maturity greater than 1-year); historical avg. issuance is average over 2003-2008.

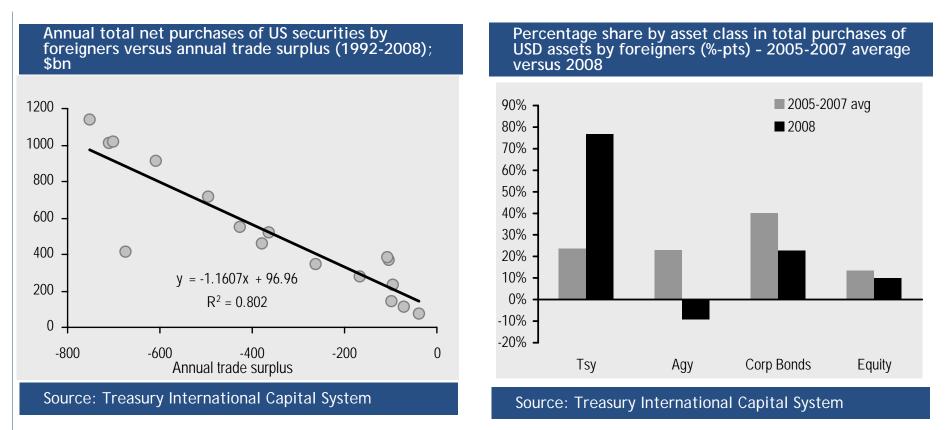
TBAC

Aggregate flows into equity and bond mutual funds



•Except for 4Q08, inflows into taxable bond funds have stayed positive, while equity funds have seen outflows

Aggregate foreign inflows into US assets will likely fall (but stay positive) with a shrinking trade deficit, but asset substitution has been offsetting the impact on Treasuries



- A shrinking trade deficit is likely to lead to smaller (but still positive) aggregate inflows we estimate a trade deficit of \$475bn in calendar year 2009, versus \$721bn on average over the 2005-2007 period, and \$674bn in 2008
- However, a substitution effect into Treasuries is evident so far
 - TIC data on transactions in coupon Treasuries suggest that foreigners bought \$316bn Treasuries in 2008, versus \$245bn on average in 2005-2007
 - Year-to-date Fed custody holdings data of Treasuries have increased by \$133bn, while that of Agencies has decreased by \$8bn
 - TIC data show over January-February 2009, foreigners bought \$32bn Treasuries and sold \$14bn Agencies, \$5bn US corporate bonds, and \$4bn US stocks

Within US fixed income markets, rising Treasury issuance relative to other markets will cause shifts in the composition of common benchmark indices ...

US index components outstanding for a major benchmark aggregate index as of 3/31/09; projected net issuance in Apr-Dec 2009; projected Dec 2009 outstanding levels, and projected Dec 2009 weightings

| | | 3/31/09 | | Proj. 2009 | |
|------------------------|------------|-------------|---------------|-------------|------------|
| | 3/31/09 | outstanding | Proj. Apr-Dec | outstanding | Proj. 2009 |
| | weighting* | (\$bn) | 2009 issuance | (\$bn) | weightings |
| TOTAL | 100% | 9,320 | | 10,965 | 100% |
| US MBS | 42% | 3,946 | 400 | 4,346 | 39% |
| US Treasuries | 31% | 2,614 | 1,135 | 3,749 | 34% |
| US Credit | 19% | 1,944 | 131 | 2,074 | 19% |
| US Agencies | 6% | 520 | -20 | 500 | 5% |
| EM External Debt (USD) | 2% | 150 | 0 | 150 | 1% |
| EM Credit (USD) | 1% | 146 | 0 | 146 | 1% |

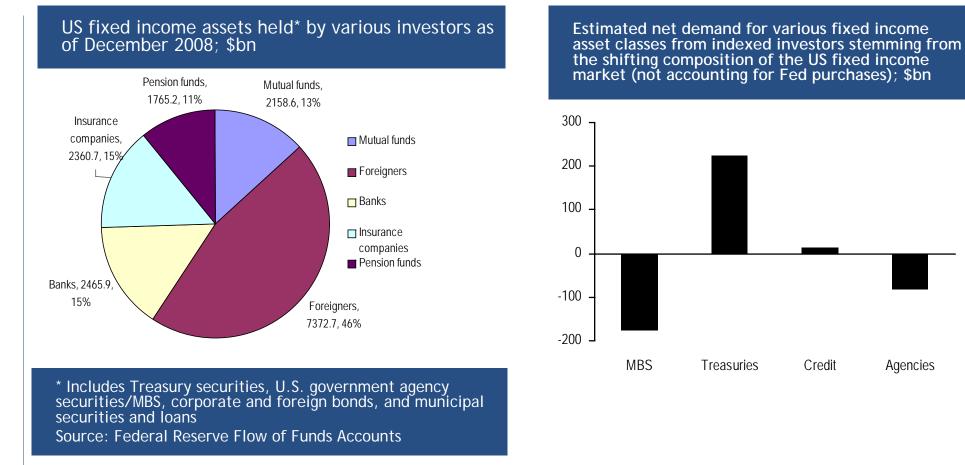
* 3/31/09 weighting uses market values.

•The relatively high Treasury issuance over April-December 2009 should cause USTs to grow to about 34% of the index, from about 31% currently

•USTs could grow to an even higher fraction of the index if commonly used benchmarks change their methodology to adjust for the Fed's purchases (especially of MBS)

•In this case, USTs could grow to approximately 36% of the index

... and passive investor reallocations should cause inflows into Treasuries



•Approximately 40% of the investor universe (mutual funds, pension funds and insurance companies, with an estimated \$6.5Tn in fixed income assets) may be assumed to manage to a benchmark

•Other countries' sovereign issuance is likely not a competing factor for these investors

•We estimate \$225bn in Treasury market inflows from these investors due to index composition changes

•Such demand could be higher (about \$380bn) if common benchmark indices are redefined to exclude Fed purchases, especially of MBS

Agencies

Expected net Treasury supply versus a breakdown of expected sources of demand

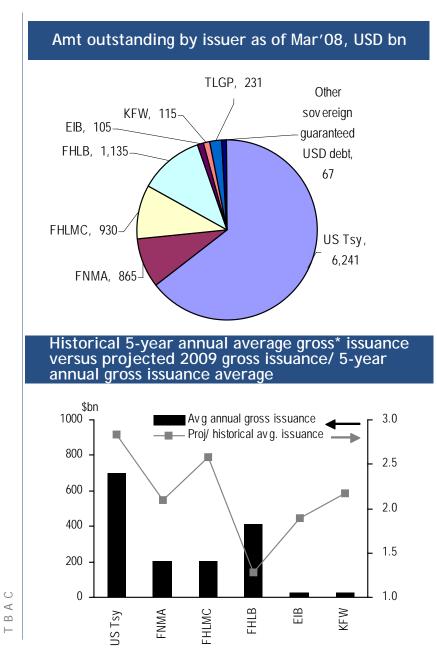
Projected net issuance in coupon Treasuries over April-December 2009 versus expected incremental demand from various sources; \$bn

| Expected net issuance in coupon Treasuries over Apr-Dec 2009 | 1135 |
|--|------|
| Fed purchases over Apr-Dec 2009 | 258 |
| Index-related demand | 224 |
| Foreign demand* | 145 |
| Reinvestment demand from MBS/Agy debt sales** | 352 |
| Remainder | 157 |

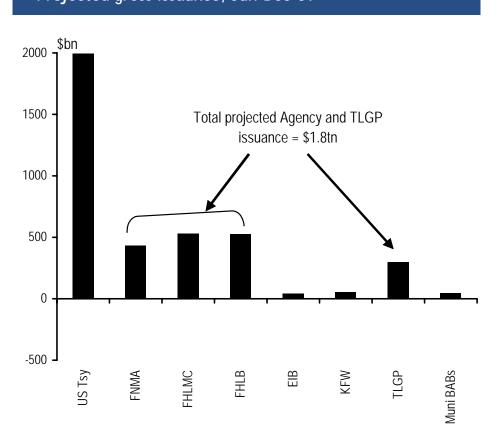
* Assumes run rate of purchases over January-February 2009 by foreigners remains the same over April-December 2009. Based on TIC flows data.

** We assume that benchmark indices will not adjust for Fed purchases. We then use the estimated net reduction in MBS and Agency debt exposure from index investors to calculate the MBS/Agency debt displaced from nonindexed portfolios. Finally, we assume that this displaced cash from nonindexed portfolios will remain allocated to US Fixed Income, and reinvested in Treasuries and Corporates (including FDIC guaranteed debt) in proportion to the expected gross issuance in those markets

Issuance trends for quasi-government debt markets

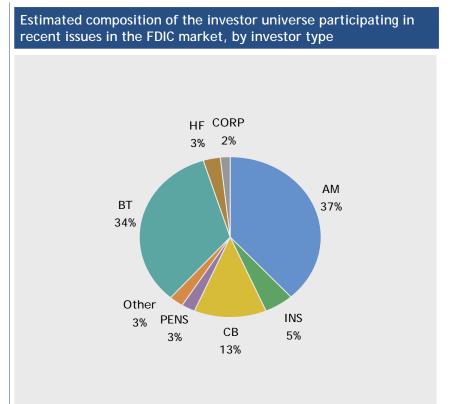


Projected gross issuance, Jan-Dec'09



* Gross issuance includes only long-term debt (i.e. debt with original maturity greater than 1-year)

Estimated composition of demand for quasi-government debt



Domestic 57%

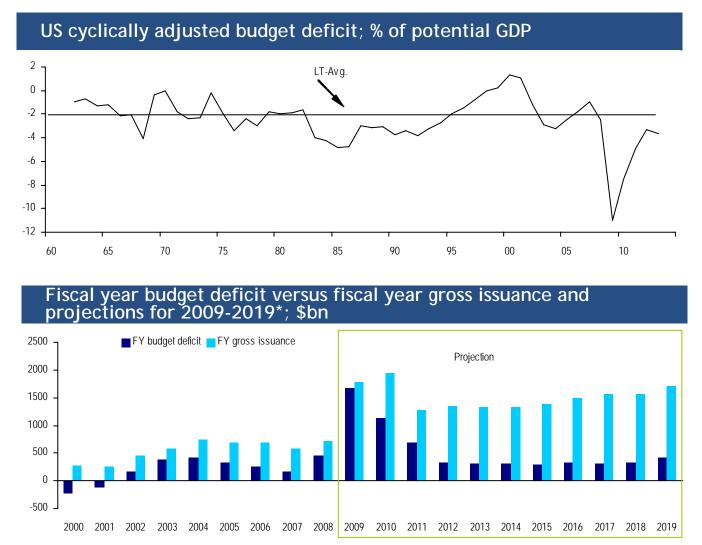
Estimated domestic/international split among investors participating in recent issues in the FDIC market

- FDIC-guaranteed debt is treated as a sub-sector of government debt in benchmark indices most investor classes would thus have an incentive to participate
- Anecdotal evidence regarding investor participation in the FDIC-guaranteed market suggests that most classes of Treasury investors are active buyers of this paper

Asset Manager (AM) Bank Treasury (BT) Hedge Fund (HF) Central Bank (CB) Insurance Company (INS) Corporate (CORP) Pension Fund (PENS)

TBAC

Long term deficit and issuance projections



* CBO budget forecasts are used. To project gross issuance, we assume that the coupon auction schedule remains unchanged except for an additional bond reopening, that bills outstanding reverts to and stays at a constant 25% of total debt outstanding, and that gross issuance sizes are scaled to meet the remaining funding needs net of bill issuance. Issuance projections do not account for returns from financial assets acquired via TARP.

The impact of improving economic conditions and rising risk appetite needs to be considered in the future

Stylized listing of factors currently supportive of USTs, and estimated impact going forward when the economy begins to improve

| Factors currently supporting USTs | Outlook | Impact on yields |
|---------------------------------------|-------------------|-------------------|
| Net inflows into fixed income markets | Ļ | 1 |
| Fed purchases of Treasuries | ↓ | 1 1 |
| Index-related demand | \leftrightarrow | \leftrightarrow |
| Foreign demand for Treasuries | ↓↓ | 1 |
| Other Fed asset purchases | ↓ ↓ | 1 |

Auction timing - avoid Mondays and Fridays

| | 2Y | 5Y | 10Y | 30Y | 1.0 – |
|------|----|----|-----|-----|-------|
| on | 4 | 0 | 0 | 0 | 1.0 |
| ue | 13 | 5 | 4 | 0 | |
| /ed | 50 | 38 | 13 | 0 | 0.5 - |
| ĥu | 4 | 27 | 32 | 13 | |
| -ri | 0 | 0 | 0 | 0 | |
| otal | 71 | 70 | 49 | 13 | 0.0 |
| | | | | | |

auction tail** and % indirect bids for ar note separated by day of week; % 30% Av erage tail Average indirect bid % 32% (inverted axis) 34% 36% -1.0 38% Mon Tue Wed Thu

•There is some evidence that auctions held on Mondays perform poorly relative to auctions held on other days of the week

•Typical tails have been larger, and indirect bids have been lower

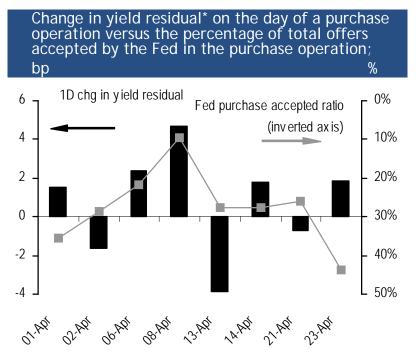
•The experience with Monday auctions suggests that auctions held on Fridays could prove similar or worse

Asian investors are likely to be less active in Friday auctions given the time difference
We recommend Treasury avoid Mondays and Fridays to the extent possible given calendar constraints

* Uses Treasury auction data from May 2003 to March 2009. 3-year and 7-year sectors were excluded due to sparse history.

** Auction tails calculated as difference between the pricing yield and the 1PM WI yield Source: Bloomberg

The impact of Fed purchases - demand begets supply

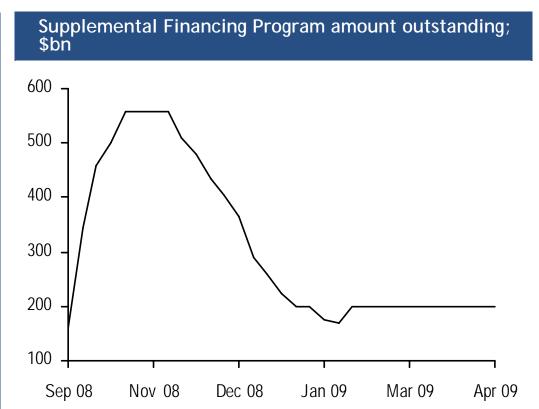


•Given the numerous high-frequency events impacting markets, it is difficult to isolate the impact of Fed purchases

•That said, we find that the closest benchmark to the purchase sector has cheapened versus the wings on the day of the operation in 5 out of 8 operations in April

- •This impact has been greater in purchase operations with lower acceptance rates
 - •In effect, purchase operations may be acting as effective sources of supply to dealer desks

* Yield residual defined as the 6-month residual of the yield of the closest benchmark to the Fed purchase sector, regressed against yields on the wings. Wings refer to the nearest surrounding benchmark points on the curve except for the 10-year, where wings refer to 2s and 30s.



The Supplemental Financing Program

Advantages and disadvantages of Fed bills versus SFP

| Fed bills | SFP | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| Adva | antages | | | | | | | | |
| Preserves the separation between | Uses existing operational and market | | | | | | | | |
| fiscal and monetary policy | resources | | | | | | | | |
| Provides the Fed with the flexibility of using an additional reserve management tool, when and if needed | Concentrates liquidity in one market | | | | | | | | |
| Greater transparency regarding the | | | | | | | | | |
| US Government's fiscal liabilities and | | | | | | | | | |
| term structure versus monetary policy | | | | | | | | | |
| actions | | | | | | | | | |
| Provides a mechanism to make the | Provides a mechanism to make the Fed's | | | | | | | | |
| Fed's reserve creation portable beyond | reserve creation portable beyond the | | | | | | | | |
| the banking system | banking system | | | | | | | | |
| Disad | vantages | | | | | | | | |
| Requires legislation authorizing the | Requires legislation to exempt SFP | | | | | | | | |
| Fed to issue debt | amounts from the debt ceiling | | | | | | | | |
| | May be seen as compromising the | | | | | | | | |
| | separation between fiscal and monetary | | | | | | | | |
| Splits liquidity across two markets | policy | | | | | | | | |

Treasury Borrowing Advisory Committee Quarterly Meeting Committee Charge – April 28, 2009

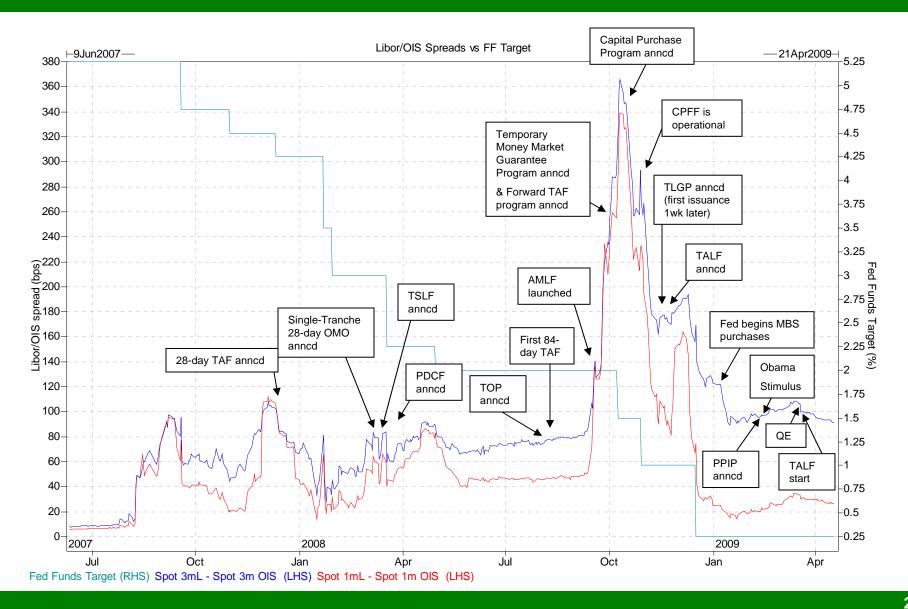
Credit Market Conditions

The Treasury, Federal Reserve, and FDIC have undertaken a series of actions to foster the robust functioning of credit markets. Please discuss how these actions have impacted credit markets, what additional steps may be considered, and the implications of any current or additional steps on the Treasury market.

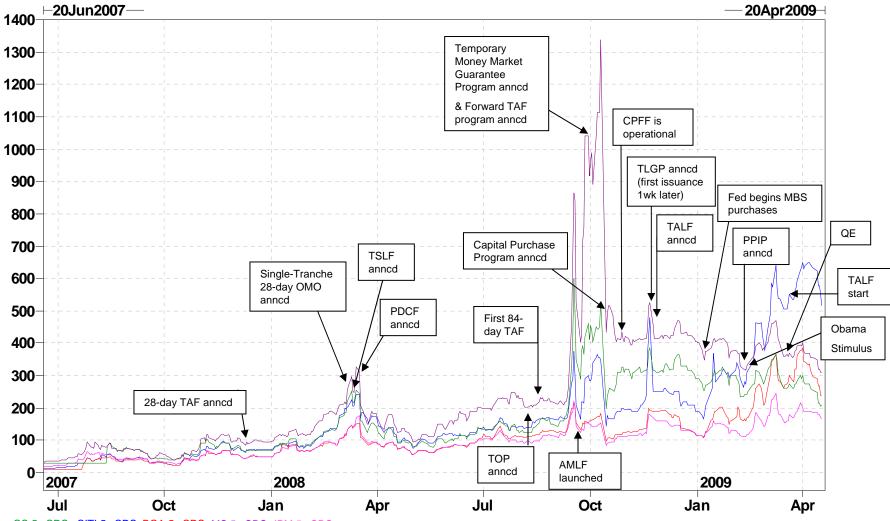
Timeline of Policy Initiatives from the Fed and Treasury

| Date | Event |
|-----------|--|
| 12-Dec-07 | 28-day TAF announced |
| 7-Mar-08 | Single-Tranche 28-day OMO announced |
| 11-Mar-08 | TSLF announced |
| 16-Mar-08 | PDCF announced |
| 8-Aug-08 | TOP announced |
| 11-Aug-08 | First 84-day TAF |
| 19-Sep-08 | AMLF launched |
| 29-Sep-08 | Temporary Money Market Guarantee Program announced & Forward TAF program announced |
| 14-Oct-08 | Capital Purchase Program announced |
| 27-Oct-08 | CPFF is operational |
| 21-Nov-08 | TLGP announced (first issuance 1wk later) |
| 25-Nov-08 | TALF announced |
| 5-Jan-09 | Fed begins MBS purchases |
| 10-Feb-09 | PPIP announced |
| 13-Feb-09 | Obama Stimulus |
| 18-Mar-09 | QE |
| 19-Mar-09 | TALF start |

LIBOR/OIS Spreads Sustain Recent Tightening

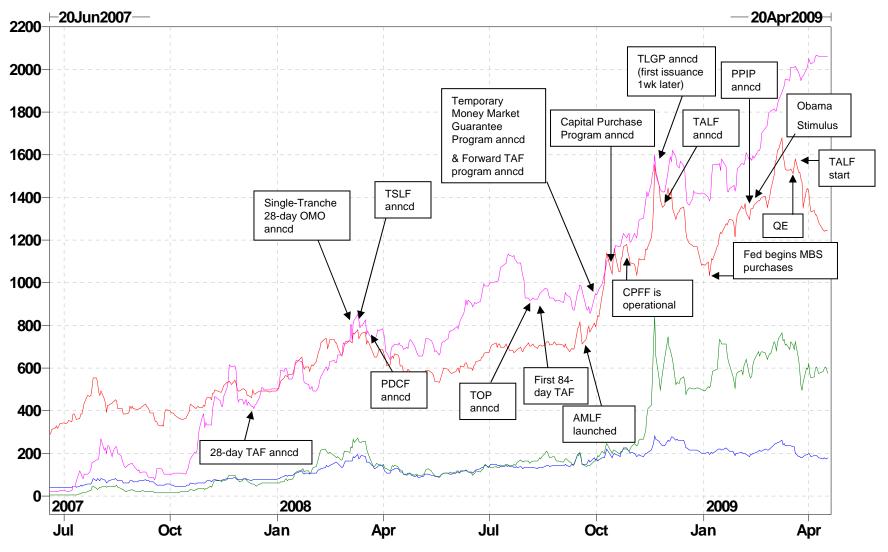


Bank CDS



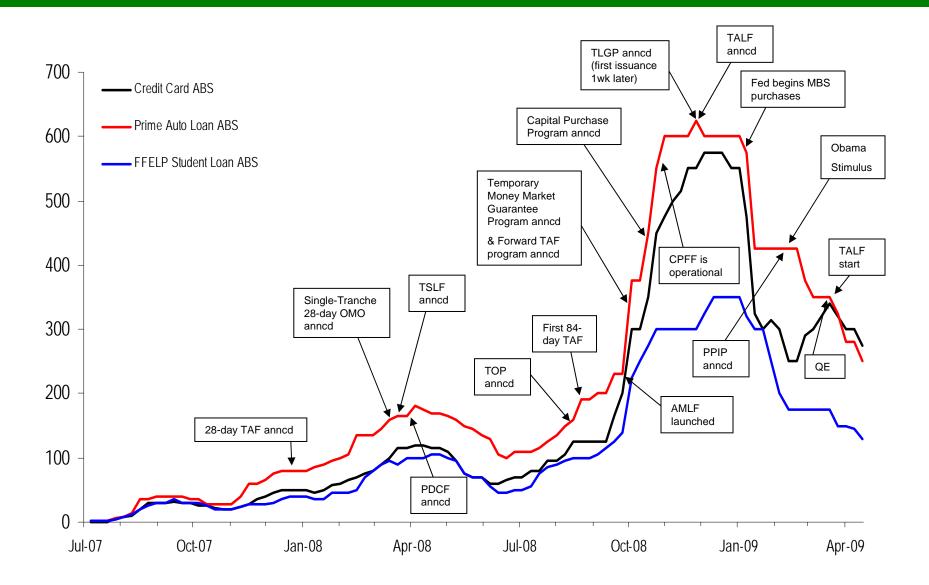
GS 5y CDS CITI 5y CDS BOA 5y CDS MS 5y CDS JPM 5y CDS

Credit Index Spreads

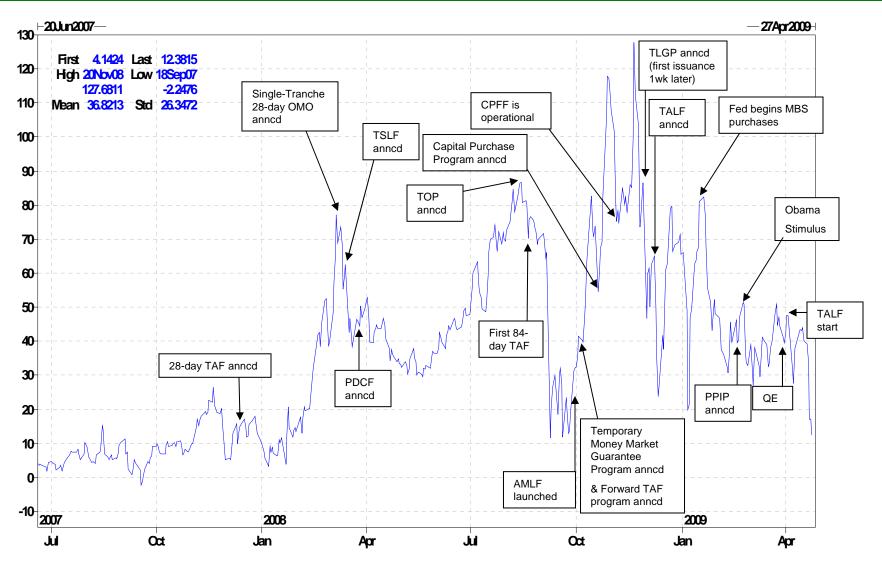


07-1 AAA CMBX 07-1 AAA ABX IG 5y HY 5y

ABS Spreads

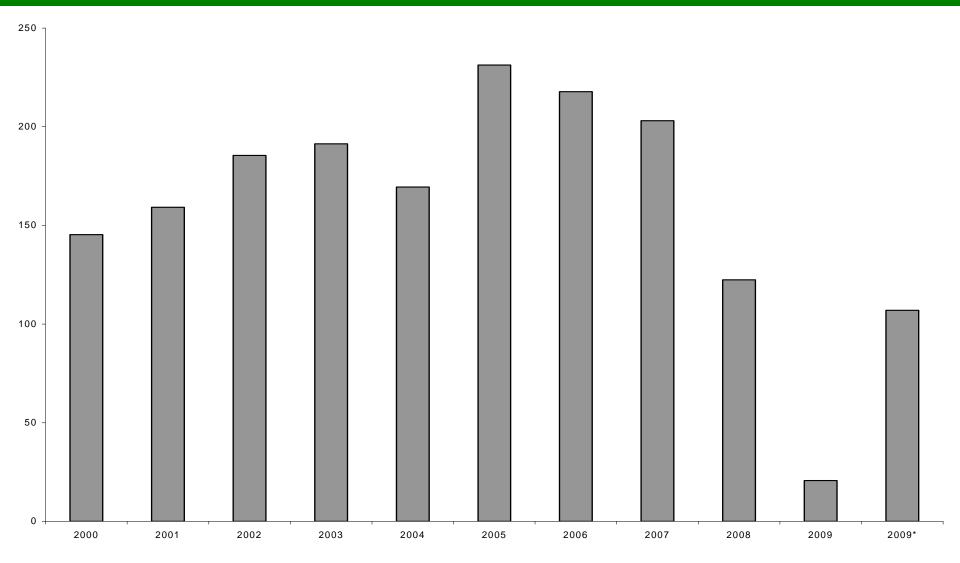


Mortgage OAS



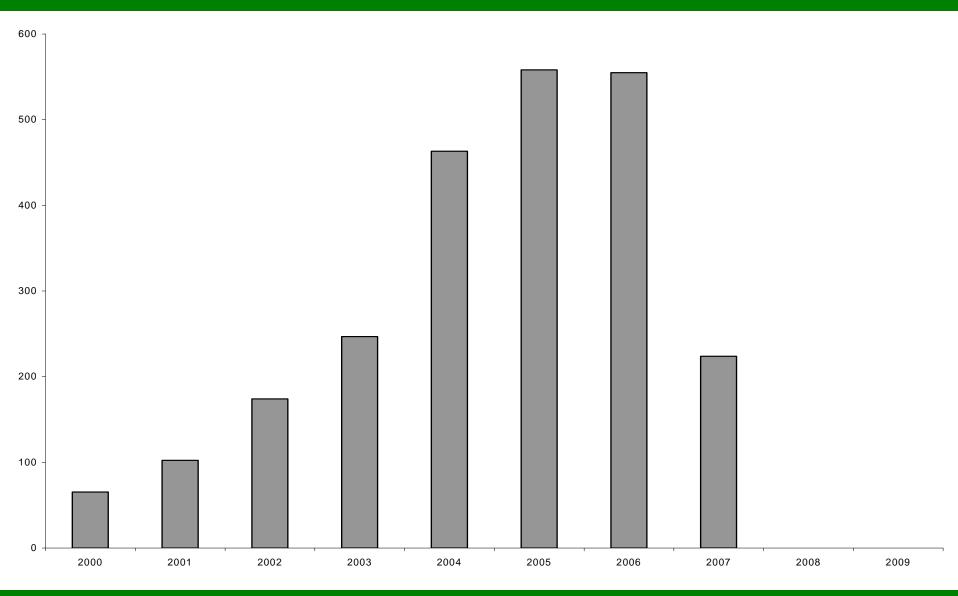
Mortgage Current Coupon OAS

Gross Issuance of Auto, Credit Card + Student Loan ABS (\$ bn)

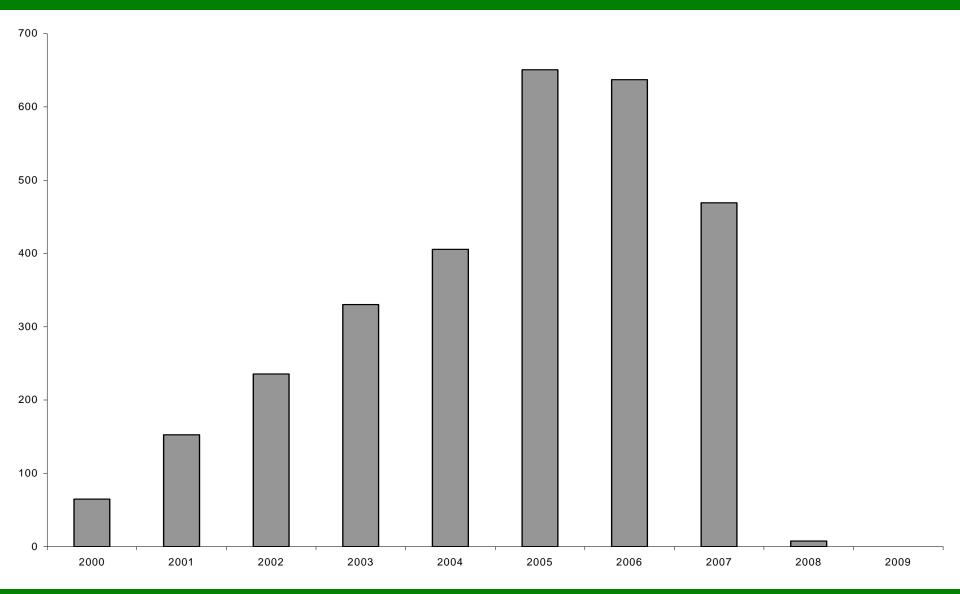


* Annualized issuance since TALF program started

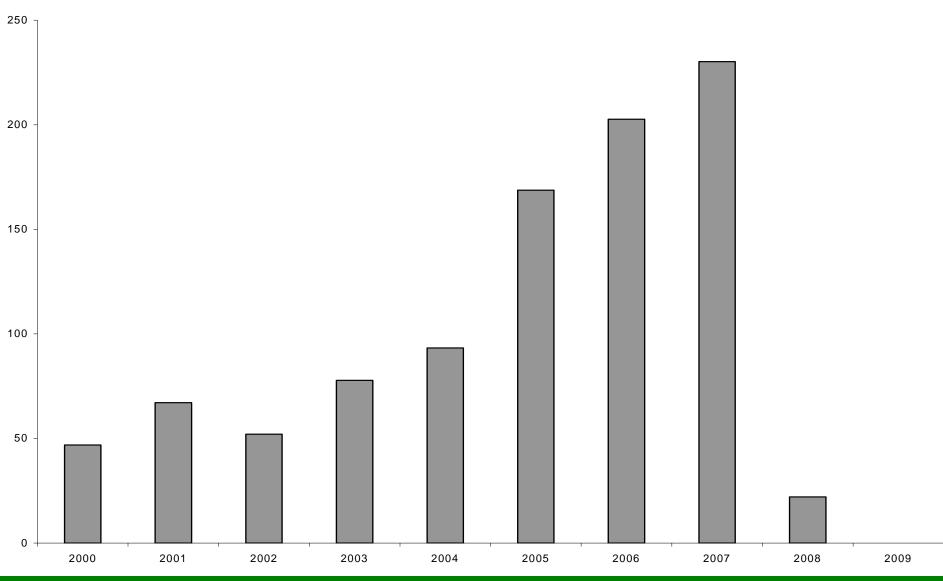
Gross Issuance of Home Equity Loan ABS (\$ bn)



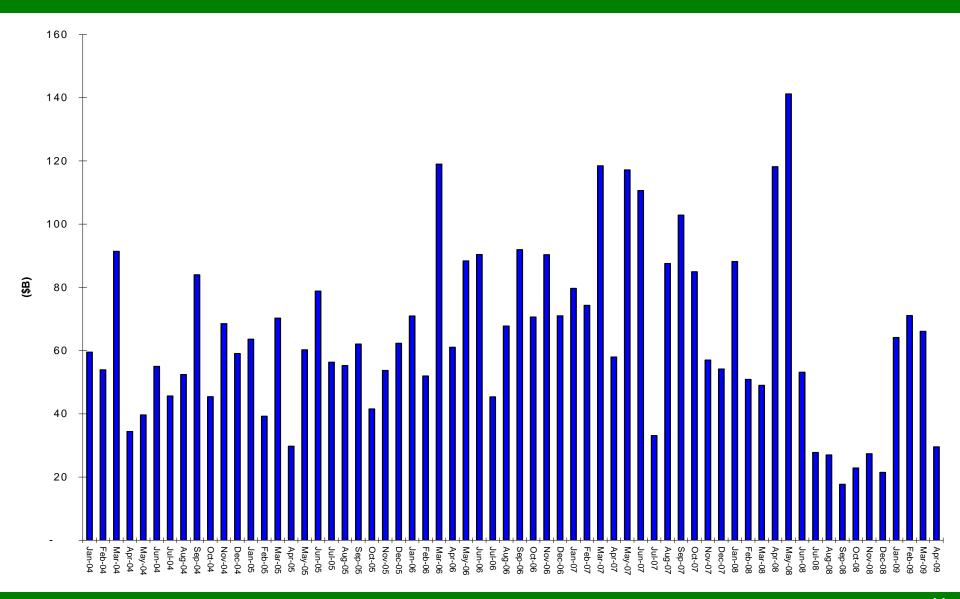
Gross Issuance of Non-Agency MBS (\$ bn)



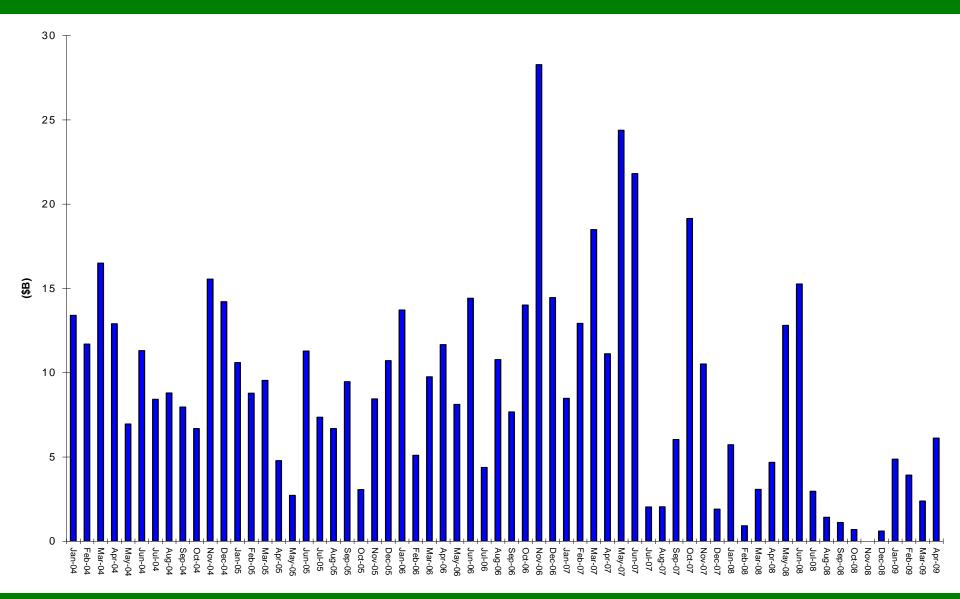
Gross Issuance of CMBS (\$ bn)



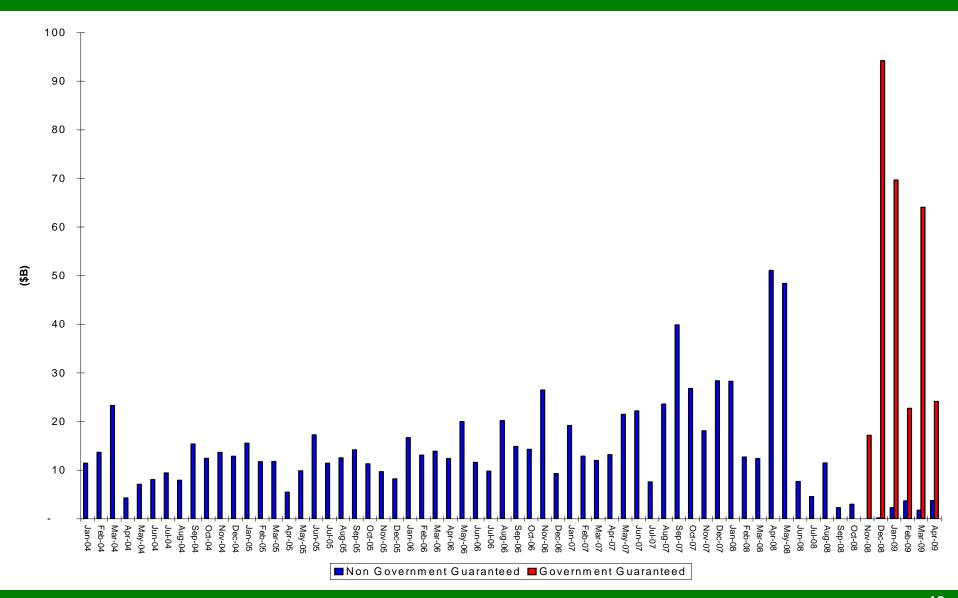
US Investment Grade Corporate Debt Issuance (\$ bn)



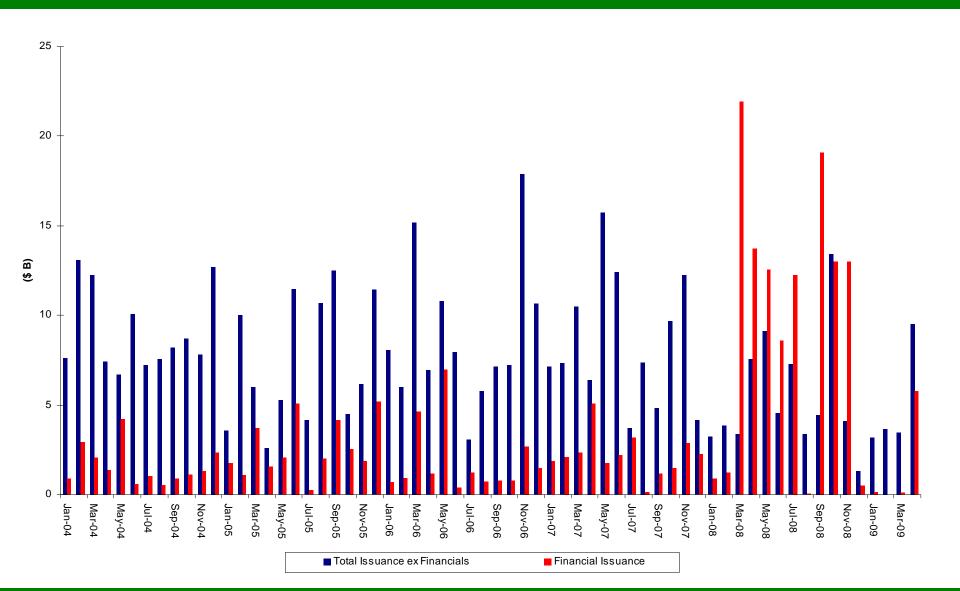
High Yield Corporate Debt Issuance (\$ bn)



Monthly Guaranteed & Non-Guaranteed Financial Issuance (\$ bn)



Monthly Equity Market Issuance (IPOs and Secondaries, \$ bn)



Improved Markets

●Libor → Capital Purchase Program and TLGP

•ABS \rightarrow TALF

- •Mortgage basis \rightarrow Fed purchases
- •Additional steps must target assets that have not normalized
- •Additional steps must target economic growth

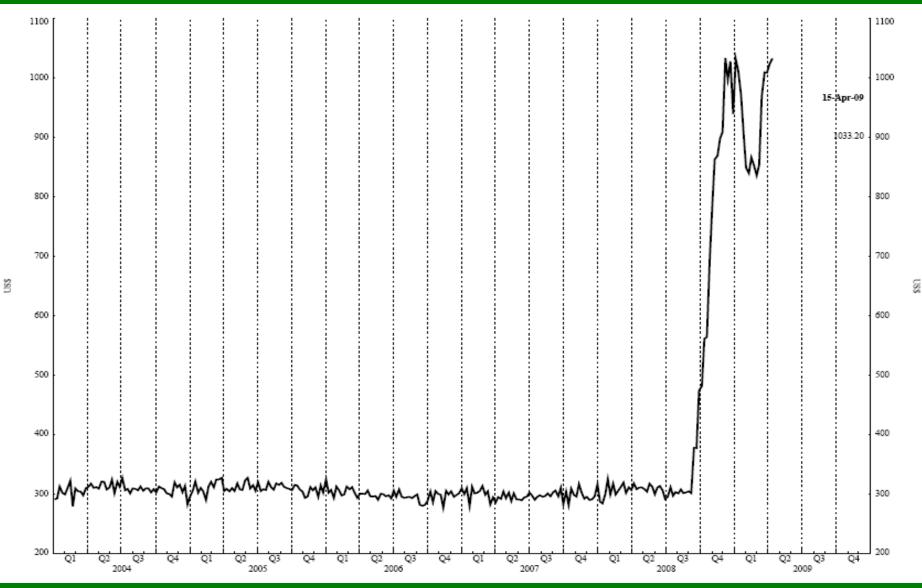
Haircut Grid

| | ABS | RMBS | CMBS | Investment Grade Corporate Debt | High Yield Corporate Debt |
|--|--------------|----------------|----------------|---------------------------------------|---------------------------------|
| Pre Lehman | 10-25% | 20-30% | 10-20% | 5-15% | 20-30% |
| Post Lehman | 15-30% | 30-50% | 20-40% | 20-30% | 30-50% |
| Current | 20-40% | 30-50% | 20-40% | 10-20% | 30-50% |
| Spread Tightening with Pre-Lehman Haircut Levels | 25-75 bps | 150-250 bps | 200-300 bps | 25-75 bps | 250-350 bps |



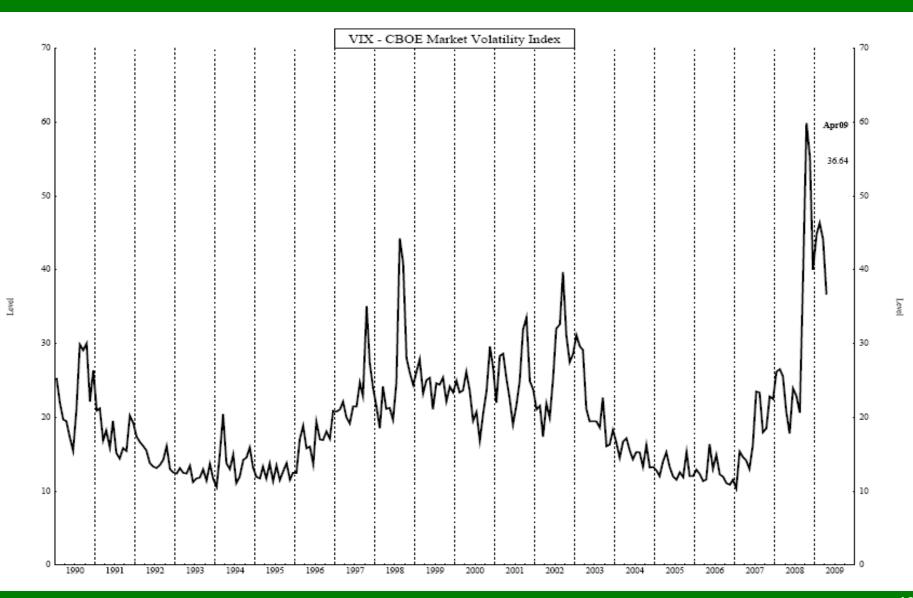
If volatility continues to remain low, haircuts will improve across the board in 1-2 months

Cash Assets on Commercial Bank Balance Sheets (\$ bn)

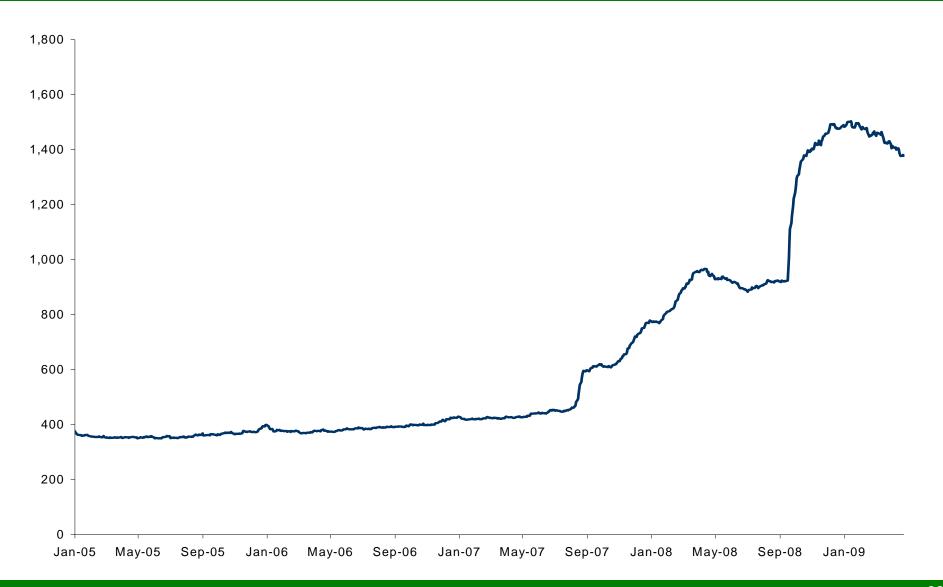


Cash Held By Individuals (\$ bn)

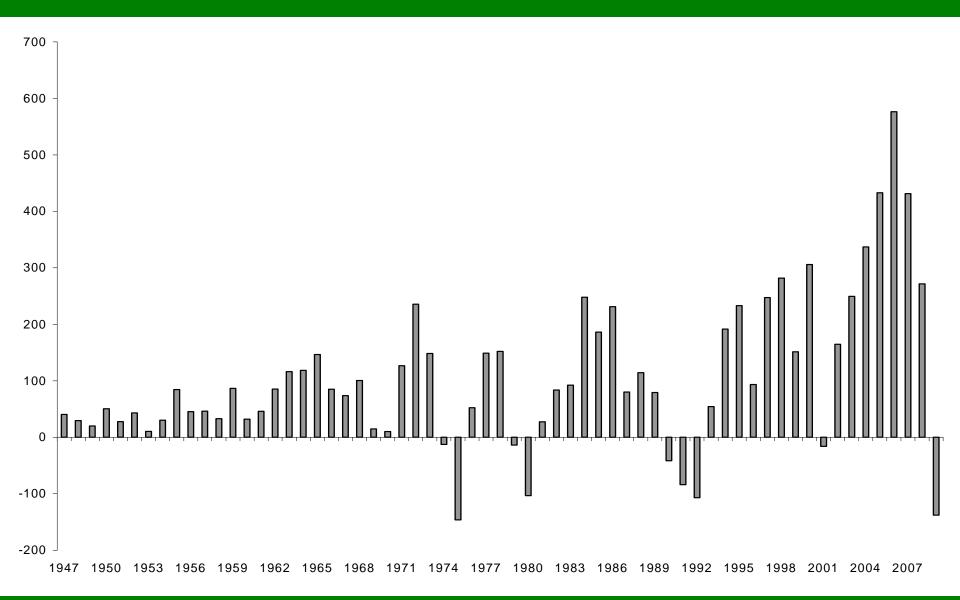
| | | | | | | | | | | | | S | avin | gs D | eposi | ts +] | Retai | 1 Mo | ney | Fund | ls | | | | | | | | | | | |
|-------|------|------|--|------|--------|------|------|------|------|------|---|------|------|------|-------|--------|-------|------|------|------|--|------|------|------|---------------|------|------|------|------|---------|----------------|-----------|
| | 5000 | - | | | | | | | | | | | | | | | | | - | | | | | | | | | | / | $\int $ | (ar09 07.50 | 5000 |
| | 4000 | - | | | | | | | | | | | | | | | | | | | | | | / | $\overline{}$ | ٦ | ~ | ~~ | | | - | 4000 |
| Level | 3000 | - | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | | | / | ~ | / | | | | | | | | - | 3000 Leve |
| | 2000 | - | | | | | | | | | | | | | | ~ | | | / | | 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | | | - | 2000 |
| | 1000 | | | _ | \cap | ~ | - | | ~ | | | | | | | | | | | | | | | | | | | | | | - | 1000 |
| | 0 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 0 |



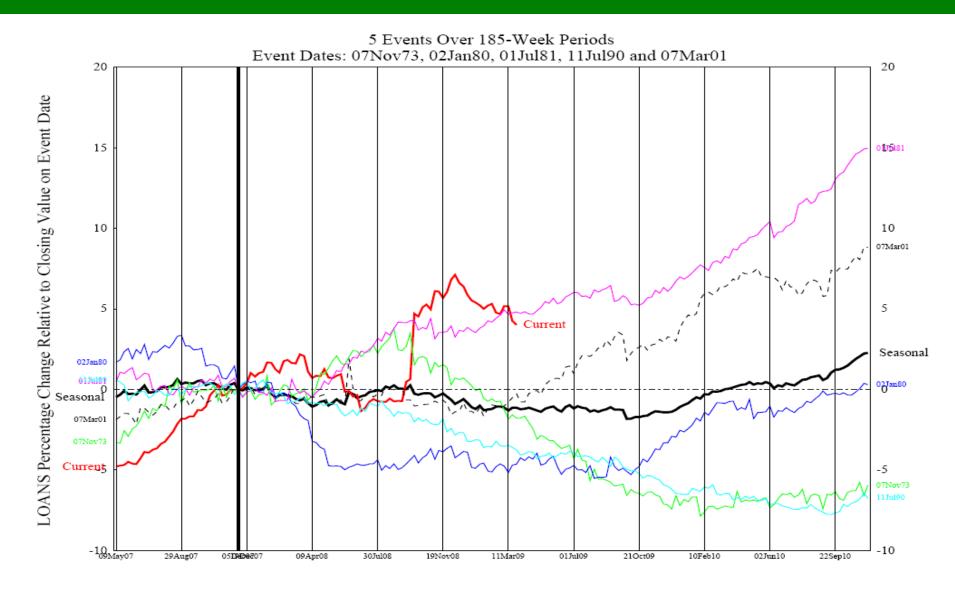
Government Money Market Fund Assets Outstanding (\$ bn)



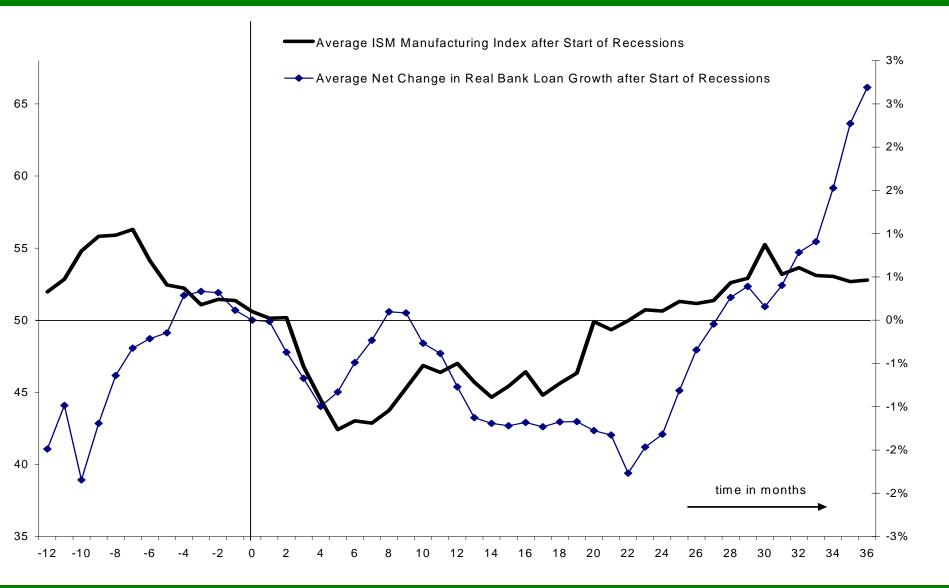
Real Net Bank Loan Growth (billions of 2009 USD)



Real Bank Ioan Growth Following Recession Start Dates



ISM Leads Real Bank Loan Growth Out of Recessions



US Debt to GDP with Recessions Shaded

