# Fannie Mae's Floating-to-Fixed Callable Securities 

## April - May 2009 <br> Purchasing a <br> floating-to-fixed <br> callable bond is a <br> way for investors <br> to express <br> their view on <br> the direction of <br> interest rates.

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Fannie Mae strives to meet investor demand for its callable debt securities by issuing such securities through a flexible reverse inquiry process. Fannie Mae has an ongoing need for callable debt funding because these liabilities allow us to manage the inherent interest rate risk in our mortgage portfolio. We consistently examine new features of callable structures that investors may request due to changes in interest rate levels, the yield curve or levels of volatility. Fannie Mae can issue callable debt securities with a variety of embedded options. In a previously published FundingNotes edition earlier this year, we discussed noteworthy issuance trends we recently have experienced in the agency callable debt market such as callable step-up notes and zero-coupon callable bonds. In this edition of FundingNotes, we discuss an additional structure that has generated interest among investors in the current low interest rate environment. This type of security is a floating-tofixed callable bond. Although Fannie Mae has issued this type of security in the past, we have seen the increased issuance of large size floating-to-fixed securities in recent weeks.

## Overview

A floating-to-fixed callable bond is a type of callable security, as the name suggests, with a coupon that pays a floating rate for a specified period of time based on a margin to an index on a predetermined schedule, and then adjusts to a fixed-rate coupon determined at pricing after the call date expires. Investors purchasing a floating-to-fixed callable bond have the potential to increase their income and reduce exposure to interest rate risk since the floating rate component of the security provides investors with a natural hedge against interest rate increases.

Initially, a floating-to-fixed callable bond will pay a floating-rate coupon based on a spread to an index. As rates increase, the coupon may increase once or a few times depending on the structure of the issue. These securities are usually callable on a predetermined call date. If the notes are not called, investors will then receive a fixed-rate coupon that is predetermined on the pricing date. One reason for investing in such securities is that investors may expect rates to increase in the future, so that they may receive a higher coupon.

## An Example of a Recently Issued Floating-to-Fixed Callable Security

Next, we analyze a floating-to-fixed callable debt security that Fannie Mae issued on April 29, 2009 with CUSIP 31398AXD9. This security is a 2 -year non-call 1-year callable bond with a European-style (one-time) call option. This issue currently has $\$ 1$ billion outstanding.

This bond has a floating-rate indexed to three-month LIBOR plus a margin of 10 basis points. It resets on a quarterly basis for the first year. The coupon that investors receive is based on the three-month LIBOR two business days before the coupon payment date, which in turn means that this security's first payment is on July 29, 2009 and the rate from which the coupon payment derives will be determined by the three-month LIBOR rate on July 27, 2009.


Using the implied LIBOR forward curve on Bloomberg, investors would hypothetically receive 0.901 percent coupon for the first payment period ending on July 29, 2009, 1.095 percent coupon for the second payment on October 29, 2009, 1.234 percent coupon for the third payment on January 29, 2009 and 1.390 percent coupon for the fourth payment on April 29, 2010. Thereafter, either the security will be called on April 29, 2010 or investors will begin receiving a fixed coupon payment of 2.215 percent on a semi-annual basis. Please see Exhibit 1.

Investors who believe short-term rates will increase in the near term could potentially obtain a higher coupon by investing in this type of structure, as discussed previously. In this low rate environment, investing in such securities would potentially offer investors some protection against rising rates because the coupon will increase over time. For instance, using the security we analyzed above, investors will start receiving a coupon of 2.215 percent semi-annually, which has been determined at the time of pricing, if the security is not called.

Another motivation for investors to purchase a floating-to-fixed callable debt security is that investors can potentially earn an excess return over a comparable Treasury security or a Fannie Mae bullet security. Because the effective duration of the floating-to-fixed callable bond mentioned earlier is close to one, the yield-to-call is 1.222 percent, the yield increase over an equivalent oneyear Treasury note could potentially be approximately

76 basis points. In addition, if this security is analyzed to a comparable 2-year non-call 1-year fixed-rate callable security with a European-style option, it should have a yield pick up of approximately 50 basis points.

## Conclusion

In this edition of FundingNotes, we discuss the structure of floating-to-fixed callable securities and reasons why investors have been more active in requesting this structure through reverse inquiry in the current interest rate environment. Purchasing a floating-to-fixed callable bond is a way for investors to express their view on the direction of interest rates. In the current low rate environment, many investors expect rates to increase in the near term. With this structure, they have the opportunity to receive a fixed-rate coupon if the call date expires and the bond has not been called. As always, Fannie Mae has the flexibility to explore a variety of features for the callable debt it issues and is willing to analyze a myriad of structures that we issue on a reverse inquiry basis from investors communicated through dealers.

## Addendum

On May 8, 2009, Fannie Mae released its first quarter 2009 results. Financial reports, along with Form 10-Q and credit supplement can be accessed on our Web site: http://www.fanniemae.com/newsreleases/ 2009/4697.jhtml? $p=$ Media\&s=News+Releases

> FannieMae FUNDINGNOTES ${ }^{\circledR}$

For Fannie Mae's Investors and Dealers

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 common stock. Refer to our Current Report on Form 8-K filed with the SEC on September 11, 2008 for additional information.

Fannie Mae Funding Liabilities and Debt Outstanding 2006 through March 31, 2009
Funding Liabilities and Debt Outstanding (in millions)
Federal Fund Borrowings
Other Short Term Funding Liabilities ${ }^{1}$
Total Federal Funds Purchased and Securities Sold under Agreements
Average maturity (in days)
Discount Notes
Benchmark Bills
FX Discount Notes
Other Short Term Debt ${ }^{2}$
Total Short Term Debt ${ }^{3}$
Average maturity (in days)
Benchmark Notes \& Bonds ${ }^{4}$
Callable Benchmark Notes ${ }^{4}$
Subordinated Benchmark Notes
Callable Fixed Rate MTNs ${ }^{5,6}$
Noncallable Fixed Rate MTNs ${ }^{5,6}$
Callable Floating Rate MTNs ${ }^{5,6}$
Noncallable Floating Rate MTNs ${ }^{5,6}$
Other LongTerm Debt ${ }^{7}$
Total Long Term Debt ${ }^{8,9}$
Average maturity (in months)
Total Federal Funds Purchased and Securities Sold under Agreements
to Repurchase and Debt Outstanding
Average maturity (in months)

| 12/31/06 |  | 12/31/07 |  | 12/31/08 |  | 3/31/09 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \$ | 700 | \$ | - | \$ | - | \$ | - |
|  | - |  | 869 |  | 77 |  | 12 |
| \$ | 700 | \$ | 869 | \$ | 77 | \$ | 12 |
|  | 1 |  | 1 |  | - |  | 15 |
| \$ | 83,893 | \$ | 155,358 | \$ | 272,476 | \$ | 226,925 |
|  | 76,500 |  | 80,000 |  | 52,003 |  | 45,000 |
|  | 1,917 |  | 859 |  | 402 |  | 395 |
|  | 5,613 |  | 50 |  | 7,661 |  | 3,207 |
| \$ | 167,923 | \$ | 236,267 | \$ | 332,542 | \$ | 275,527 |
|  | 81 |  | 74 |  | 102 |  | 99 |
| \$ | 2277,706 | \$ | 256,823 | \$ | 251,315 | \$ | 276,392 |
|  | - |  | - |  | - |  | - |
|  | 11,000 |  | 9,000 |  | 7,398 |  | 7,398 |
|  | 192,374 |  | 207,504 |  | 190,950 |  | 201,208 |
|  | 114,242 |  | 77,331 |  | 50,131 |  | 46,665 |
|  | 831 |  | 8,135 |  | 1,530 |  | 1,130 |
|  | 5,470 |  | 5,761 |  | 45,470 |  | 57,774 |
|  | 4,138 |  | 4,580 |  | 3,763 |  | 3,235 |
| \$ | 605,761 | \$ | 569,134 | \$ | 550,557 | \$ | 593,802 |
|  | 57 |  | 68 |  | 66 |  | 64 |
| \$ | 774,384 | \$ | 806,270 | \$ | 883,176 | \$ | 869,341 |
|  | 45 |  | 48 |  | 42 |  | 45 |

Fannie Mae Funding Liabilities and Debt Issuance 2006 through March 31, 2009

| Funding Liabilities and Debt Issuance (in millions) |  | 2006 |  | 2007 |  | 2008 |  | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Federal Fund Borrowings | \$ | 58,186 | \$ | 13,065 | \$ | 5,617 | \$ | - |
| Other Short Term Funding Liabilities ${ }^{1}$ |  | 172,493 |  | 25,324 |  | 60,888 |  | 3,320 |
| Total Federal Funds Purchased and Securities Sold under Agreements to Repurchase | \$ | 230,679 | \$ | 38,389 | \$ | 66,505 | \$ | 3,320 |
| Discount Notes | \$ | 1,833,688 | \$ | 1,293,040 | \$ | 1,361,959 | \$ | 274,570 |
| Benchmark Bills |  | 196,500 |  | 206,500 |  | 185,503 |  | 23,497 |
| FX Discount Notes |  | 6,379 |  | 2,291 |  | 2,583 |  | 383 |
| Other Short Term Debt ${ }^{10}$ |  | 4,863 |  | 86,777 |  | 8,661 |  | 50 |
| Total Short Term Debt ${ }^{3}$ | \$ | 2,041,430 | \$ | 1,588,608 | \$ | 1,558,706 | \$ | 298,500 |
| Benchmark Notes \& Bonds | \$ | 42,000 | \$ | 37,000 | \$ | 50,500 | \$ | 37,000 |
| Callable Benchmark Notes |  | - |  | - |  | - |  | - |
| Subordinated Benchmark Notes |  | - |  | - |  | - |  | - |
| Callable Fixed Rate MTNs ${ }^{6}$ |  | 113,716 |  | 135,886 |  | 150,255 |  | 54,142 |
| Noncallable Fixed Rate MTNs ${ }^{6}$ |  | 20,898 |  | 8,438 |  | 4,336 |  | 1,072 |
| Callable Floating Rate MTNs ${ }^{6}$ |  | 2,700 |  | 8,275 |  | 1,280 |  | 100 |
| Noncallable Floating Rate MTNs ${ }^{6}$ |  | 12,000 |  | 4,176 |  | 41,284 |  | 16,1800 |
| Other LongTerm Debt ${ }^{11}$ |  | 0 |  | 138 |  | 743 |  | 34 |
| Total Long Term Debt ${ }^{8}$ | \$ | 181,314 | \$ | 193,913 | \$ | 248,399 | \$ | 108,528 |
| Total Federal Funds Purchased and Securities Sold under Agreements to Repurchase and Debt Issued | \$ | 2,453,423 | \$ | 1,820,910 | \$ | 1,873,610 | \$ | 410,348 |
| Net Issuance Long Term Debt ${ }^{12}$ | \$ | 12,058 | \$ | $(39,201)$ | \$ | $(18,363)$ | \$ | 43,290 |

[^0]
## Endnotes

Footnotes for Tables 1 and 2
Other Short Term Funding Liabilities includes Benchmark repos, contingency repo lending, and other short term funding liabilities. For 2006, the Other Short Term Funding Liabilities amount of $\$ 172,493$ million includes intra-days loans in the amount of $\$ 163,509$ million
${ }^{2}$ For 2007 and thereafter Other Short Term Debt consists of coupon bearing short term notes. For 2006 Other Short Term Debt consists of coupon bearing short term notes and investment agreements.
${ }^{3}$ Short term debt consists of borrowings with an original contractual maturity of one year or less.
${ }_{5}^{4}$ Outstanding Benchmark Notes \& Bonds with expired call options are reported as Benchmark Notes \& Bonds.
${ }_{6}^{5}$ Outstanding MTNs with expired call options are reported as Noncallable MTNs.
${ }^{6}$ MTNs include all long term non-Benchmark Securities such as globals, zero coupon securities, medium term notes, Final Maturity Amortizing Notes, and other long term debt securities.
${ }^{7}$ For 2007 and thereafter Other Long Term Debt consists of long term foreign currency debt, investment agreements, and other long term securities. For 2006 Other Long Term Debt consists of long term foreign currency debt and other long term securities.
${ }^{8}$ Long term debt consists of borrowings with an original contractual maturity of greater than one year.
${ }^{9}$ Unamortized discounts and issuance costs of long term zero coupon securities are approximately $\$ 11$ billion at December 31, 2006, $\$ 10.8$ billion at December 31, 2007, $\$ 14.8$ billion at December 31, 2008 and $\$ 17.9$ billion at March 31, 2009.
${ }^{10}$ For months beginning Oct 2007 and thereafter Other Short Term Debt includes coupon bearing short term notes. For 2006 and the first 9 months of 2007, Other Short Term Debt includes coupon bearing short term notes and investment agreements. For 2007, the Other Short Term Debt issuance amount of $\$ 86,777$ million includes intra-days loans in the amount of $\$ 86,727$ million.
${ }^{11}$ For months beginning Oct 2007 and thereafter Other Long Term Debt consists of long term foreign currency debt, investment agreements, and other long term securities. For 2006 Other Long Term Debt consists of long term foreign currency debt and other long term securities.
${ }^{12}$ Net Issuance Long Term Debt amounts represent the difference between long term debt issued and long term debt repaid during the period. For any period, a positive value indicates that the amount of long term debt issued was greater than the amount of long term debt repaid, and a negative value indicates that the amount of long term debt repaid was greater than the amount of long term debt issued.
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## General

On November 9, 2007, we filed current financial statements in our Form 10-Q for the third quarter of 2007. As a result,beginning with the data for October 2007, we are implementing data reclassifications and other changes to betteralign the statistical information we present in our funding summary report with the financial information we report in our quarterly and annual filings with the SEC.
Previously reported amounts have been revised to conform to the current period presentation and to reflect the completion of Fannie Mae's 2005 audited financial statements.
Funding Liabilities and Debt include Federal Funds Purchased and Securities Sold under Agreements to Repurchase, Short Term Debt and Long Term Debt.
Reported amounts represent the unpaid principal balance at each reporting period or, in the case of the long term zero coupon bonds, at maturity. Unpaid principal balance does not reflect the effect of debt basis adjustments, including discounts, premiums, and issuance costs.
Numbers may not foot due to rounding.

## Debt Securities Index Reports

| 发 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Citigroup |  |  |  |  |  |  | Barclays Capital |  |  |  |  |  |  |
| Fannie Mae Index: | 2.97 | 1.39 | -0.30 | 6.76 | -0.30 | 6.13 | Fannie Mae Index: | 3.27 | 0.95 | -0.14 | 6.08 | -0.14 | 5.71 |
| 1-10 Years | 2.73 | 1.19 | 0.39 | 6.41 | 0.39 | 5.97 | 1-10 Years | 2.93 | 0.85 | 0.46 | 5.79 | 0.46 | 5.55 |
| 10+ Years | 0.24 | 3.36 | -6.90 | 10.11 | -6.90 | 7.50 | 10+ Years | 0.33 | 1.78 | -4.55 | 8.29 | -4.55 | 6.94 |
| Callable | 0.51 | 0.90 | -0.17 | 3.36 | -0.17 | 4.42 | Callable | 1.05 | 0.86 | 0.52 | 4.18 | 0.52 | 4.53 |
| Noncallable | 2.45 | 1.46 | -0.34 | 7.19 | -0.34 | 6.38 | Noncallable | 2.21 | 0.99 | -0.45 | 6.96 | -0.45 | 6.23 |
| Globals | 2.35 | 1.35 | -0.28 | 6.69 | -0.28 | 6.38 | Globals | 2.26 | 0.96 | -0.30 | 6.67 | -0.30 | 6.31 |
| Agency: | 7.94 | 1.46 | -0.34 | 6.89 | -0.34 | 6.16 | Agency: | 9.98 | 0.89 | -0.11 | 6.21 | -0.11 | 5.77 |
| Callable | 0.82 | 0.89 | 0.02 | 3.17 | 0.02 | 4.07 | Callable | 2.12 | 0.85 | 0.70 | 3.99 | 0.70 | 4.45 |
| Noncallable | 7.11 | 1.51 | -0.37 | 7.17 | -0.37 | 6.29 | Noncallable | 7.86 | 0.91 | -0.35 | 6.95 | -0.35 | 6.13 |
| Globals | 5.95 | 1.28 | -0.25 | 7.06 | -0.25 | 6.53 | Globals*** | 6.97 | 0.91 | -0.15 | 6.86 | -0.15 | 6.37 |
| Citigroup |  |  |  |  |  |  | Barclays Aggregate |  |  |  |  |  |  |
| Index*: | 100.00 | 1.41 | 0.24 | 5.90 | 0.24 | 4.52 | Index: | 100.00 | 1.39 | 0.12 | 4.70 | 0.12 | 3.13 |
| U.S. Treasury | 28.82 | 2.22 | -1.43 | 7.29 | -1.43 | 7.50 | U.S. Treasury | 26.17 | 2.18 | -1.32 | 7.32 | -1.32 | 7.48 |
| GSE** | 8.96 | 1.43 | -0.35 | 6.60 | -0.35 | 5.93 | Government-Related** | 13.90 | 1.06 | -0.41 | 5.28 | -0.41 | 4.56 |
| Credit | 23.06 | 0.21 | -1.09 | 3.03 | -1.09 | -4.61 | Corporate | 17.42 | -0.41 | -1.93 | 1.97 | -1.93 | -6.63 |
| MBS | 38.87 | 1.54 | 2.25 | 6.61 | 2.25 | 8.26 | MBS | 38.71 | 1.42 | 2.20 | 6.63 | 2.20 | 8.09 |
| ABS | 0.29 | 3.02 | 8.37 | 1.35 | 8.37 | -1.28 | ABS | 0.55 | 1.99 | 7.56 | 0.23 | 7.56 | -4.28 |
|  |  |  |  |  |  |  | CMBS | 3.25 | 6.11 | -1.87 | -15.14 | -1.87 | -19.95 |

[^1]This data has been compiled from reports supplied by Citigroup and Barclays Capital and is reproduced here with their permission. The indexes are constructed according to rules developed by these firms and the index values are calculated by them.

## Summary Breakdown of 2009 Debt Issuances

Includes all settled fixed-rate debt issues with maturities greater than one year. Variable rate debt is not included in totals.

| Fannie Mae <br> Maturity/Call (Year) | te Callable Debt <br> March 2009 <br> Par Amount <br> (in thousands) | \# Issues | YTD 2009 Par Amount (in thousands) | \# Issues | Fannie Mae Fi <br> Maturity/Call (Year) | Callable Debt <br> March 2009 <br> Par Amount <br> (in thousands) | \# Issues | YTD 2009 Par Amount (in thousands) | \# Issues |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.50NC0.25 |  |  | 1,435,000,000 | 8 | 4.50NC0.25 |  |  | 250,000,000 | 1 |
| 1.99NC0.99 |  |  | 50,000,000 | 1 | 4.50 NC 1.00 |  |  | 10,000,000 | 1 |
| 2.00NC0.24 |  |  | 250,000,000 | 1 | 4.51 NC0. 25 | 10,000,000 | 1 | 10,000,000 | 1 |
| 2.00NC0. 25 | 300,000,000 | 2 | 500,000,000 | 5 | 4.51NC1.00 | 115,000,000 | 3 | 115,000,000 | 3 |
| 2.00NC0.50 | 500,000,000 | 3 | 615,000,000 | 5 | 4.51NC1.50 | 25,000,000 | 1 | 25,000,000 | 1 |
| 2.00NC1.00 | 12,775,000,000 | 5 | 15,710,000,000 | 16 | 4.58NC1.08 |  |  | 15,000,000 | 1 |
| 2.02NC1.02 | 80,000,000 | 2 | 80,000,000 | 2 | 4.76NC0. 25 | 10,000,000 | 1 | 10,000,000 | 1 |
| 2.05NC1.05 | 150,000,000 | 1 | 150,000,000 | 1 | 5.00NC0. 24 |  |  | 530,000,000 | 10 |
| 2.06NC1.06 | 2,000,000,000 | 1 | 2,000,000,000 | 1 | 5.00NC0.25 | 30,000,000 | 1 | 735,000,000 | 11 |
| 2.08NC1.08 | 1,000,000,000 | 1 | 1,000,000,000 | 1 | 5.00 NC1.00 | 2,765,000,000 | 8 | 9,655,000,000 | 17 |
| 2.50NC0.25 | 100,000,000 | 1 | 195,000,000 | 3 | 5.00NC1.25 | 40,000,000 | 2 | 40,000,000 | 2 |
| 2.50NC0.50 |  |  | 195,000,000 | 1 | 5.00NC1.50 | 15,000,000 | 1 | 15,000,000 | 1 |
| 2.50NC0.75 | 30,000,000 | 1 | 30,000,000 | 1 | $5.00 \mathrm{NC2} 2.00$ | 370,000,000 | 9 | 1,740,000,000 | 17 |
| 2.50 NC 1.00 | 715,000,000 | 10 | 1,110,000,000 | 16 | 5.00NC2.75 |  |  | 15,000,000 | 1 |
| 2.75NC1.00 | 800,000,000 | 10 | 800,000,000 | 10 | 5.00 NC3.00 | 175,000,000 | 3 | 175,000,000 | 3 |
| 2.75NC1.75 | 25,000,000 | 1 | 25,000,000 | 1 | 5.50NC0.25 |  |  | 10,000,000 | 1 |
| $3.00 \mathrm{NC0.24}$ |  |  | 856,000,000 | 15 | 5.50NC1.00 |  |  | 25,000,000 | 1 |
| $3.00 \mathrm{NC0} 25$ | 25,000,000 | 1 | 475,000,000 | 4 | 5.76 NC 2.00 | 15,000,000 | 1 | 15,000,000 | 1 |
| $3.00 \mathrm{NC0.50}$ | 110,000,000 | 4 | 120,000,000 | 5 | 6.00NC0. 24 |  |  | 105,000,000 | 1 |
| 3.00 NC 0.75 | 25,000,000 | 1 | 25,000,000 | 1 | 6.00NC0. 25 | 50,000,000 | 1 | 50,000,000 | 1 |
| 3.00 NC 1.00 | 2,320,000,000 | 7 | 3,950,000,000 | 15 | 6.50NC0. 24 |  |  | 10,000,000 | 1 |
| 3.00 NC 1.50 | 100,000,000 | 2 | 185,000,000 | 3 | 6.51 NC 1.00 | 15,000,000 | 1 | 15,000,000 | 1 |
| 3.00 NC 2.00 | 490,000,000 | 4 | 710,000,000 | 7 | 7.00NC0. 24 |  |  | 35,000,000 | 1 |
| 3.17NC1.17 | 10,000,000 | 1 | 10,000,000 | 1 | 7.00NC0.25 | 10,000,000 | 1 | 10,000,000 | 1 |
| 3.42NC1.41 |  |  | 15,000,000 | 1 | 7.00NC1.00 | 1,080,000,000 | 4 | 2,080,000,000 | 5 |
| $3.50 \mathrm{NC0} .24$ |  |  | 250,000,000 | 1 | 7.00NC2.00 |  |  | 25,000,000 | 1 |
| 3.50 NCO .25 |  |  | 25,000,000 | 1 | 7.51NC1.50 | 40,000,000 | 2 | 40,000,000 | 2 |
| 3.50 NC 1.50 |  |  | 75,000,000 | 1 | 7.76NC2.00 | 20,000,000 | 1 | 20,000,000 | 1 |
| 3.50 NC 2.00 |  |  | 50,000,000 | 1 | 7.84NC1.59 | 10,000,000 | 1 | 10,000,000 | 1 |
| 3.51 NCO .25 | 39,800,000 | 2 | 39,800,000 | 2 | 8.00NC0. 24 |  |  | 10,000,000 | 1 |
| 3.51 NC1.00 | 420,000,000 | 7 | 420,000,000 | 7 | 8.50 NC 1.50 |  |  | 25,000,000 | 1 |
| 3.51 NC 1.25 | 10,000,000 | 1 | 10,000,000 | 1 | 8.51 NC 1.00 | 10,000,000 | 1 | 10,000,000 | 1 |
| 3.51 NC 1.50 | 10,000,000 | 1 | 10,000,000 | 1 | 10.00NC0.24 |  |  | 100,000,000 | 4 |
| 3.51 NC2.00 | 80,000,000 | 1 | 80,000,000 | 1 | 10.00NC0.25 | 15,000,000 | 1 | 15,000,000 | 1 |
| $3.75 \mathrm{NC0.24}$ |  |  | 25,000,000 | 1 | 10.00NC1.00 |  |  | 76,000,000 | 3 |
| 3.76 NC 0.76 | 50,000,000 | 1 | 50,000,000 | 1 | 10.00 NC 2.00 |  |  | 15,000,000 | 1 |
| 3.76 NC 1.00 | 25,000,000 | 1 | 25,000,000 | 1 | 12.00NC0.24 |  |  | 25,000,000 | 1 |
| 3.84 NCO .84 |  |  | 10,000,000 | 1 | 15.00NC0.24 |  |  | 1,271,000,000 | 16 |
| 4.00NC0.24 |  |  | 280,000,000 | 2 | 15.00NC0.25 | 165,000,000 | 3 | 280,000,000 | 7 |
| 4.00NC1.00 | 125,000,000 | 2 | 280,000,000 | 6 | 15.00NC1.00 | 55,000,000 | 2 | 190,000,000 | 6 |
| 4.00NC2.00 |  |  | 20,000,000 | 1 | 15.02NC0.25 |  |  | 20,000,000 | 1 |
| 4.08 NC 1.08 |  |  | 10,000,000 | 1 | 20.00NC1.00 |  |  | 50,000,000 | 1 |
| 4.50NC0.24 |  |  | 250,000,000 | 1 | $30.02 \mathrm{NC1} .00$ | 989,760,000 | 6 | 3,964,010,000 | 16 |
|  |  |  |  |  | Total |  |  | \$54,241,810,000 | 306 |

## 2009 Debt Redemptions

Callable Debt Redeemed (in billions)

| January | $\$$ | 13.3 |
| :--- | :--- | :--- |
| February | $\$$ | 18.7 |
| March | $\$$ | 12.5 |
| TOTAL | $\$$ | $\mathbf{4 4 . 5}$ |

Summary Breakdown of
2009 Benchmark Notes Issuance
Fannie Mae Noncallable Benchmark Notes

| Maturity | Mar09 <br> Par Amount | \# Issues | YTD 2009 <br> Par Amount |
| :--- | :---: | :---: | ---: |
| 2 Years |  |  | $15,000,000,000$ |
| 3 Years |  |  | $6,000,000,000$ |
| 5 Years | $9,000,000,000$ | 1 | $16,000,000,000$ |
| TOTAL | $\$ 9,000,000,000$ |  | $\$ 37,000,000,000$ |

Recent Benchmark Notes Transaction

| Benchmark Securities | Size/Cusip | Lead-Managers | Co-Managers | Pricing Date and Spread | Geographic Distribution | Investor Type Distribution |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5 year | $\$ 9.0$ billion | Banc of America | Barclays | March 12, 2009 | U.S. 75.7\% | Fund Manager 56.9\% |
| 2.750\% | 31398AVZ2 | Citigroup | FTN | +90 basis points | Asia 11.8\% | Comm. Banks 4.8\% |
| 3/13/2014 |  | Goldman Sachs | J.P. Morgan \& Co | 1.875 | Europe 4.9\% | Insurance 9.6\% |
|  |  |  | Loop Capital | 2/28/2014 | Other 7.6\% | Retail 0.7\% |
|  |  |  | Morgan Stanley | U.S. Treasury |  | Central Banks 18.0\% |
|  |  |  |  |  |  | State \& Local 9.5\% |
|  |  |  |  |  |  | Corp/Pensions 0.5\% |

Benchmark Repo Lending Facility Auction Results

| Auction Date | REPO <br> Maturity | CUSIP | Maturity | Amount Loaned (\$MM) | WAVG Yield | \# of <br> Bids | Auction <br> Date | REPO Maturity | CUSIP | Maturity | Amount Loaned (\$MM) | WAVG Yield | \# of Bids |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3/3/08 | 3/4/08 | 31398ADM1 | 6/12/2017 | 338,000,000.00 | 2.25 | 5 | 3/20/08 | 3/24/08 | 31359MF40 | 02/15/2011 | 54,000,000.0 | 1.25 | 1 |
| 3/4/08 | 3/5/08 | 31398ADM1 | 6/12/2017 | 293,000,000.00 | 2.23 | 4 | 3/20/08 | 3/24/08 | 31359MS61 | 07/15/2016 | 27,000,000.0 | 1.25 | 1 |
| 3/4/08 | 3/5/08 | 31398AJX1 | 12/10/2009 | 40,000,000.00 | 2.23 | 1 | 3/20/08 | 3/24/08 | 31359MZLO | 12/15/2010 | 90,000,000.0 | 1.25 | 1 |
| 3/5/08 | 3/6/08 | 31398ADM1 | 6/12/2017 | 48,000,000.00 | 2.15 | 1 | 3/20/08 | 3/24/08 | 31359 mzc 0 | 10/15/2015 | 76,000,000.0 | 1.25 | 1 |
| 3/6/08 | 3/7/08 | 31359MWJ8 | 10/15/2014 | 30,000,000.00 | 2.15 | 1 | 3/20/08 | 3/24/08 | 31398AMW9 | 04/09/2013 | 151,000,000.0 | 1.25 | 2 |
| 3/7/08 | 3/10/08 | 31359MUT8 | 4/15/2014 | 25,000,000.00 | 2.15 | 1 | 3/20/08 | 3/24/08 | 31398APG1 | 04/11/2011 | 145,000,000.0 | 1.25 | 2 |
| 3/7/08 | 3/10/08 | 31398ADM1 | 6/12/2017 | 115,000,000.00 | 2.15 | 3 | 3/24/08 | 3/25/08 | 31359MC92 | 05/15/2010 | 180,000,000.0 | 1.35 | 2 |
| 3/7/08 | 3/10/08 | 31398AMW9 | 4/9/2013 | 90,000,000.00 | 2.15 | 1 | 3/24/08 | 3/25/08 | 31359MF40 | 02/15/2011 | 31,000,000.0 | 1.35 | 1 |
| 3/10/08 | 3/11/08 | 31359MUT8 | 4/15/2014 | 25,000,000.00 | 2.15 | 1 | 3/24/08 | 3/25/08 | 31359MZLO | 12/15/2010 | 90,000,000.0 | 1.35 | 1 |
| 3/10/08 | 3/11/08 | 31398ADM1 | 6/12/2017 | 235,000,000.00 | 2.15 | 3 | 3/24/08 | 3/25/08 | 31398ADM1 | 06/12/2017 | 151,000,000.0 | 1.35 | 2 |
| 3/10/08 | 3/11/08 | 31398AMW9 | 4/9/2013 | 120,000,000.00 | 2.15 | 2 | 3/24/08 | 3/25/08 | 31398AJX1 | 12/10/2009 | 25,000,000.0 | 1.35 | 1 |
| 3/11/08 | 3/12/08 | 31398ADM1 | 6/12/2017 | 116,000,000.00 | 2.15 | 1 | 3/24/08 | 3/25/08 | 31398AMW9 | 04/09/2013 | 130,000,000.0 | 1.35 | 2 |
| 3/11/08 | 3/12/08 | 31398AKY7 | 2/12/2013 | 34,000,000.00 | 2.15 | 2 | 3/24/08 | 3/25/08 | 31398APG1 | 04/11/2011 | 25,000,000.0 | 1.35 | 1 |
| 3/12/08 | 3/13/08 | 31398ADM1 | 6/12/2017 | 496,000,000.00 | 2.11 | 7 | 3/25/08 | 3/26/08 | 31359MC92 | 05/15/2010 | 80,000,000.0 | 1.35 | 1 |
| 3/13/08 | 3/14/08 | 31398ADM1 | 6/12/2017 | 128,000,000.00 | 1.85 | 2 | 3/25/08 | 3/26/08 | 31359MZLO | 12/15/2010 | 87,000,000.0 | 1.35 | 1 |
| 3/13/08 | 3/14/08 | 31398AMW9 | 4/9/2013 | 90,000,000.00 | 1.85 | 2 | 3/25/08 | 3/26/08 | 31359 mzc 0 | 10/15/2015 | 49,000,000.0 | 1.35 |  |
| 3/14/08 | 3/17/08 | 31359 mzc 0 | 10/15/2015 | 76,000,000.00 | 2.23 | 1 | 3/25/08 | 3/26/08 | 31398ADM1 | 06/12/2017 | 443,000,000.0 | 1.24 | 4 |
| 3/14/08 | 3/17/08 | 31398ADM1 | 6/12/2017 | 490,000,000.00 | 2.23 | 5 | 3/25/08 | 3/26/08 | 31398AJX1 | 12/10/2009 | 131,000,000.0 | 1.35 | 3 |
| 3/14/08 | 3/17/08 | 31398AMW9 | 04/09/2013 | 55,000,000.0 | 2.23 | 1 | 3/25/08 | 3/26/08 | 31398APG1 | 04/11/2011 | 25,000,000.0 | 1.35 | , |
| 3/14/08 | 3/17/08 | 31398APG1 | 04/11/2011 | 80,000,000.0 | 2.23 | 1 | 3/26/08 | 3/27/08 | 31359M5H2 | 02/16/2012 | 40,000,000.0 | 1.25 | 1 |
| 3/17/08 | 3/18/08 | 31359MF40 | 02/15/2011 | 35,000,000.0 | 2.15 | 1 | 3/26/08 | 3/27/08 | 31359MC92 | 05/15/2010 | 51,000,000.0 | 1.25 | 1 |
| 3/17/08 | 3/18/08 | 31359MWJ8 | 10/15/2014 | 25,000,000.0 | 2.15 | 1 | 3/26/08 | 3/27/08 | 31359MF40 | 02/15/2011 | 90,000,000.0 | 1.25 | 1 |
| 3/17/08 | 3/18/08 | 31359 mzc 0 | 10/15/2015 | 142,000,000.0 | 2.15 | 3 | 3/26/08 | 3/27/08 | 31359MS61 | 07/15/2016 | 25,000,000.0 | 1.25 | 1 |
| 3/17/08 | 3/18/08 | 31398ADM1 | 06/12/2017 | 251,600,000.0 | 2.15 | 3 | 3/26/08 | 3/27/08 | 31359MWJ8 | 10/15/2014 | 90,000,000.0 | 1.25 | 1 |
| 3/17/08 | 3/18/08 | 31398AJX1 | 12/10/2009 | 25,000,000.0 | 2.15 | 1 | 3/26/08 | 3/27/08 | 31359MZLO | 12/15/2010 | 90,000,000.0 | 1.25 | 1 |
| 3/17/08 | 3/18/08 | 31398AMW9 | 04/09/2013 | 132,000,000.0 | 2.15 | 2 | 3/26/08 | 3/27/08 | 31359 myn 7 | 08/15/2010 | 90,000,000.0 | 1.25 | 1 |
| 3/18/08 | 3/19/08 | 31359MF40 | 02/15/2011 | 40,000,000.0 | 1.75 | 1 | 3/26/08 | 3/27/08 | 31398ADM1 | 06/12/2017 | 91,000,000.0 | 1.25 | 1 |
| 3/18/08 | 3/19/08 | $31359 \mathrm{myn7}$ | 08/15/2010 | 90,000,000.0 | 1.75 | 1 | 3/26/08 | 3/27/08 | 31398AGU0 | 09/13/2010 | 90,000,000.0 | 1.25 | , |
| 3/18/08 | 3/19/08 | 31359 mzc 0 | 10/15/2015 | 86,000,000.0 | 1.75 | 1 | 3/26/08 | 3/27/08 | 31398AJX1 | 12/10/2009 | 75,000,000.0 | 1.25 | 3 |
| 3/18/08 | 3/19/08 | 31398ADM1 | 06/12/2017 | 240,000,000.0 | 1.75 | 3 | 3/26/08 | 3/27/08 | 31398AMW9 | 04/09/2013 | 124,000,000.0 | 1.25 | 3 |
| 3/18/08 | 3/19/08 | 31398AJX1 | 12/10/2009 | 29,000,000.0 | 1.75 | 1 | 3/26/08 | 3/27/08 | 31398APG1 | 04/11/2011 | 129,000,000.0 | 1.25 | 2 |
| 3/18/08 | 3/19/08 | 31398AMW9 | 04/09/2013 | 303,000,000.0 | 1.75 | 4 | 3/27/08 | 3/28/08 | 31359MS61 | 07/15/2016 | 25,000,000.0 | 0.40 | 1 |
| 3/19/08 | 3/20/08 | 31359M7X5 | 05/11/2017 | 88,000,000.0 | 1.25 | 1 | 3/27/08 | 3/28/08 | $31359 \mathrm{myn7}$ | 08/15/2010 | 110,000,000.0 | 0.40 | 2 |
| 3/19/08 | 3/20/08 | 31359MC92 | 05/15/2010 | 25,000,000.0 | 1.25 | 1 | 3/27/08 | 3/28/08 | 31398AGU0 | 09/13/2010 | 25,000,000.0 | 0.40 | 1 |
| 3/19/08 | 3/20/08 | 31359MF40 | 02/15/2011 | 76,000,000.0 | 1.25 | 1 | 3/27/08 | 3/28/08 | 31398AKY7 | 02/12/2013 | 25,000,000.0 | 0.40 | 1 |
| 3/19/08 | 3/20/08 | 31359MZLO | 12/15/2010 | 52,000,000.0 | 1.25 | 1 | 3/27/08 | 3/28/08 | 31398AMW9 | 04/09/2013 | 85,000,000.0 | 0.40 | 3 |
| 3/19/08 | 3/20/08 | $31359 \mathrm{myn7}$ | 08/15/2010 | 90,000,000.0 | 1.24 | 1 | 3/28/08 | 3/31/08 | 31359MC92 | 05/15/2010 | 76,000,000.0 | 1.40 | 2 |
| 3/19/08 | 3/20/08 | 31359 mzc 0 | 10/15/2015 | 25,000,000.0 | 1.25 | 1 | 3/28/08 | 3/31/08 | 31359MS61 | 07/15/2016 | 79,000,000.0 | 1.40 | 1 |
| 3/19/08 | 3/20/08 | 31398ADM1 | 06/12/2017 | 317,000,000.0 | 1.25 | 4 | 3/28/08 | 3/31/08 | 31359MUT8 | 04/15/2014 | 34,000,000.0 | 1.40 | 1 |
| 3/19/08 | 3/20/08 | 31398AKY7 | 02/12/2013 | 55,000,000.0 | 1.25 | 1 | 3/28/08 | 3/31/08 | 31398ADM1 | 06/12/2017 | 100,000,000.0 | 1.40 | 1 |
| 3/19/08 | 3/20/08 | 31398AMW9 | 04/09/2013 | 343,800,000.0 | 1.25 | 5 | 3/28/08 | 3/31/08 | 31398AKY7 | 02/12/2013 | 220,000,000.0 | 1.40 | 3 |
| 3/20/08 | 3/24/08 | 31359MC92 | 05/15/2010 | 27,000,000.0 | 1.25 | 1 | 3/28/08 | 3/31/08 | 31398AMW9 | 04/09/2013 | 171,000,000.0 | 1.40 | 2 |


[^0]:    Please see the Endnotes on the following page for more detail.

[^1]:    * Components of Broad (BIG) Index: Treasury, GSE, Corporate, Mortgage
    ** Includes US Agencies
    *** Includes World Bank global issues

