



NORTHERN CALIFORNIA POWER AGENCY

FEBRUARY 2014 FINANCE COMMITTEE MATERIALS

February 19, 2014

MUNICIPAL MARKET UPDATE

2008 HYDROELECTRIC BONDS LOC EXPIRATION

MARKET SNAPSHOT

- The municipal market in 2013 can be characterized by market volatility, rising long term interest rates, and significant outflows from municipal bond funds
- In December 2013, the FOMC announced it would taper its quantitative easing program by \$10 billion per month beginning in January 2014. After more dramatic reactions to earlier announcements of tapering, investors generally reacted calmly to the news and so far in 2014, tax-exempt interest rates have declined materially, driven by a supply demand mismatch, with issuance lagging considerably compared to reinvestment needs

February 18, 2014

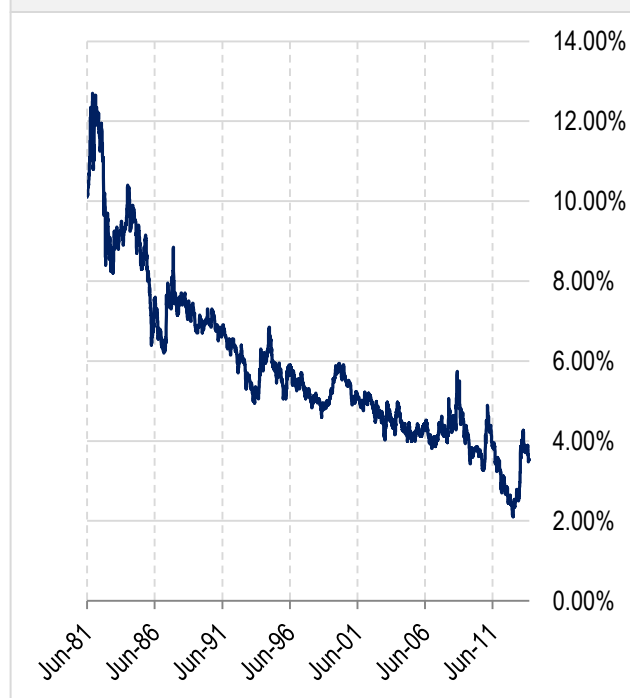
Year	Maturity	MMD	UST	Year	Maturity	MMD	UST
1	2015	0.17%	0.09%	16	2030	3.23%	-
2	2016	0.31%	0.30%	17	2031	3.32%	-
3	2017	0.51%	0.67%	18	2032	3.40%	-
4	2018	0.80%	-	19	2033	3.48%	-
5	2019	1.09%	1.48%	20	2034	3.53%	3.44%
6	2020	1.50%	-	21	2035	3.58%	-
7	2021	1.85%	-	22	2036	3.63%	-
8	2022	2.16%	-	23	2037	3.67%	-
9	2023	2.38%	-	24	2038	3.71%	-
10	2024	2.51%	2.71%	25	2039	3.75%	-
11	2025	2.66%	-	26	2040	3.79%	-
12	2026	2.79%	-	27	2041	3.81%	-
13	2027	2.91%	-	28	2042	3.83%	-
14	2028	3.02%	-	29	2043	3.84%	-
15	2029	3.13%	3.19%	30	2044	3.85%	3.68%

BENCHMARK TAX-EXEMPT INTEREST RATE PROGRESSION

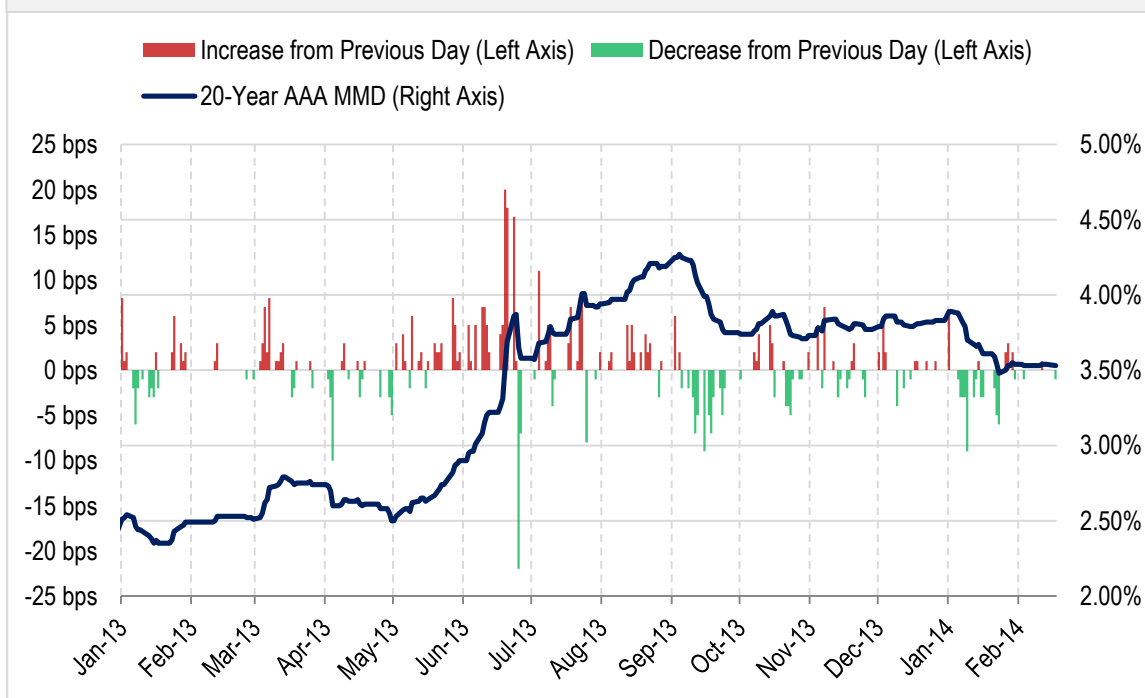
- After trading in a relatively narrow band for the first four months of the year, benchmark tax-exempt rates increased considerably over the summer, before retreating over the month of September, trading in a relatively narrow band during the final quarter of 2013, and decreasing so far this year
- Since the start of 2014:
 - 2-Year AAA MMD: - 4 bps
 - 7-Year AAA MMD: - 25 bps
 - 20-Year AAA MMD: - 36 bps
 - 5-Year AAA MMD: - 23 bps
 - 10-Year AAA MMD: -28 bps
 - 30-Year AAA MMD: -35 bps

20-Year AAA MMD Rate History

(June 1, 1981 Inception to February 18, 2014)

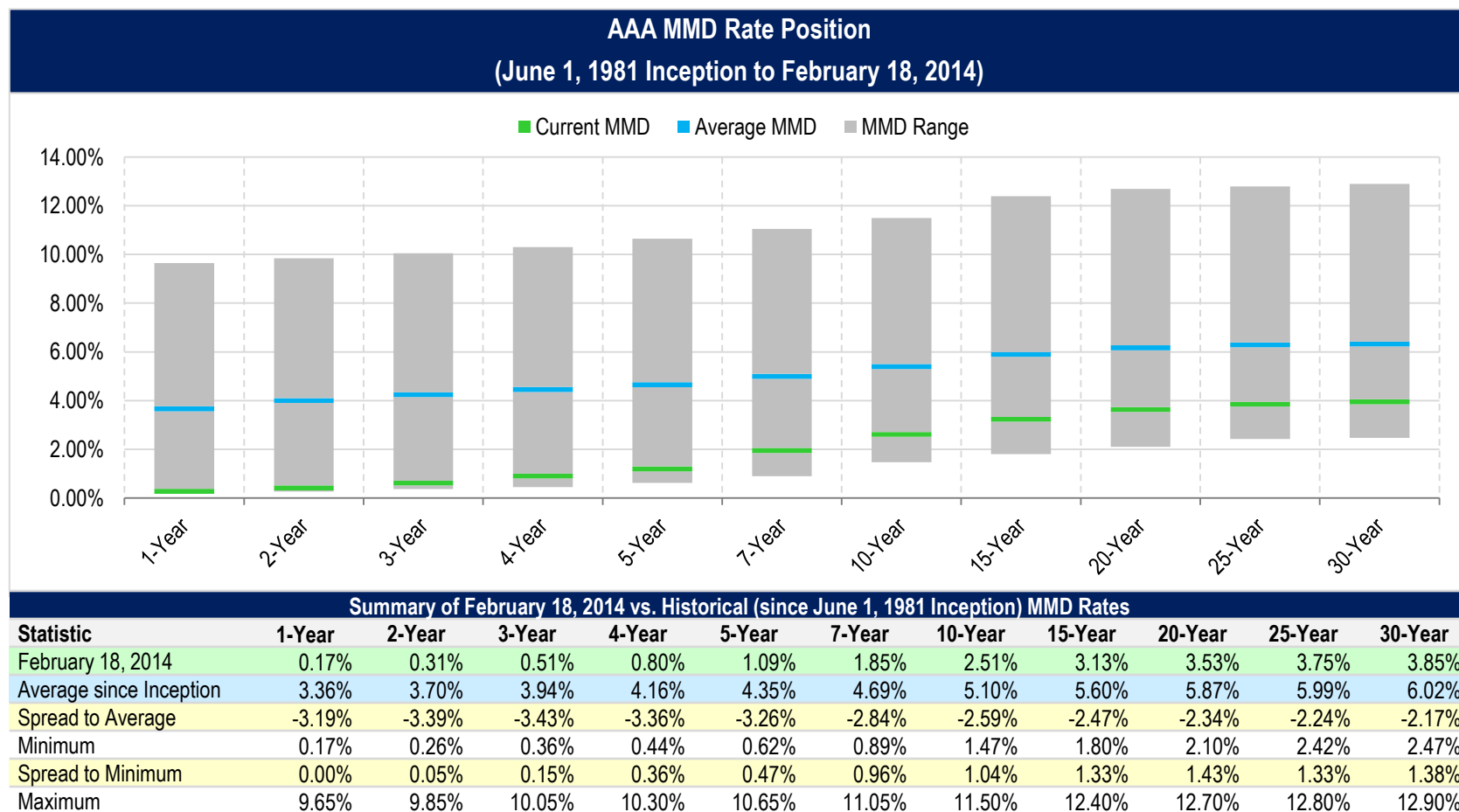


(January 2, 2013 to February 18, 2014)



BENCHMARK TAX-EXEMPT INTEREST RATE POSITION

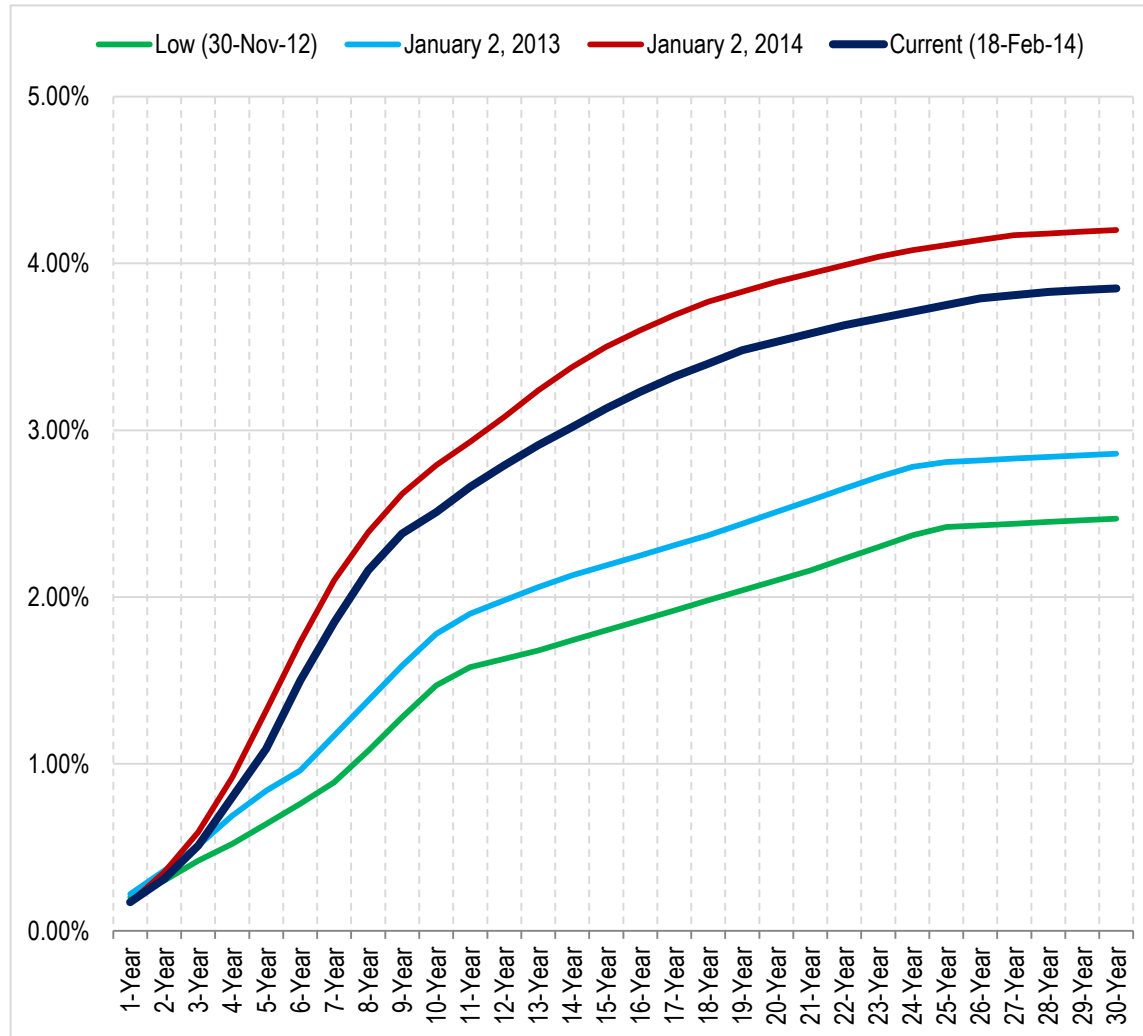
- The increase in benchmark tax-exempt rates since May 2013 has brought rates to levels well off the all-time lows reached at the end of November 2012—on the intermediate- and long-end of the yield curve, AAA MMD rates are currently approximately 130 bps – 140 bps higher, but have fallen over 35 bps since the start of 2014
 - Interest rates remain close to their historic lows on the short-end of the yield curve
 - Taking a longer view, interest rates across the yield curve are below their long-term averages



AAA MMD YIELD CURVE MOVEMENT

- The MMD yield curve has steepened as long-term interest rates have risen more than short-term interest rates

AAA MMD Yield Curve Movement

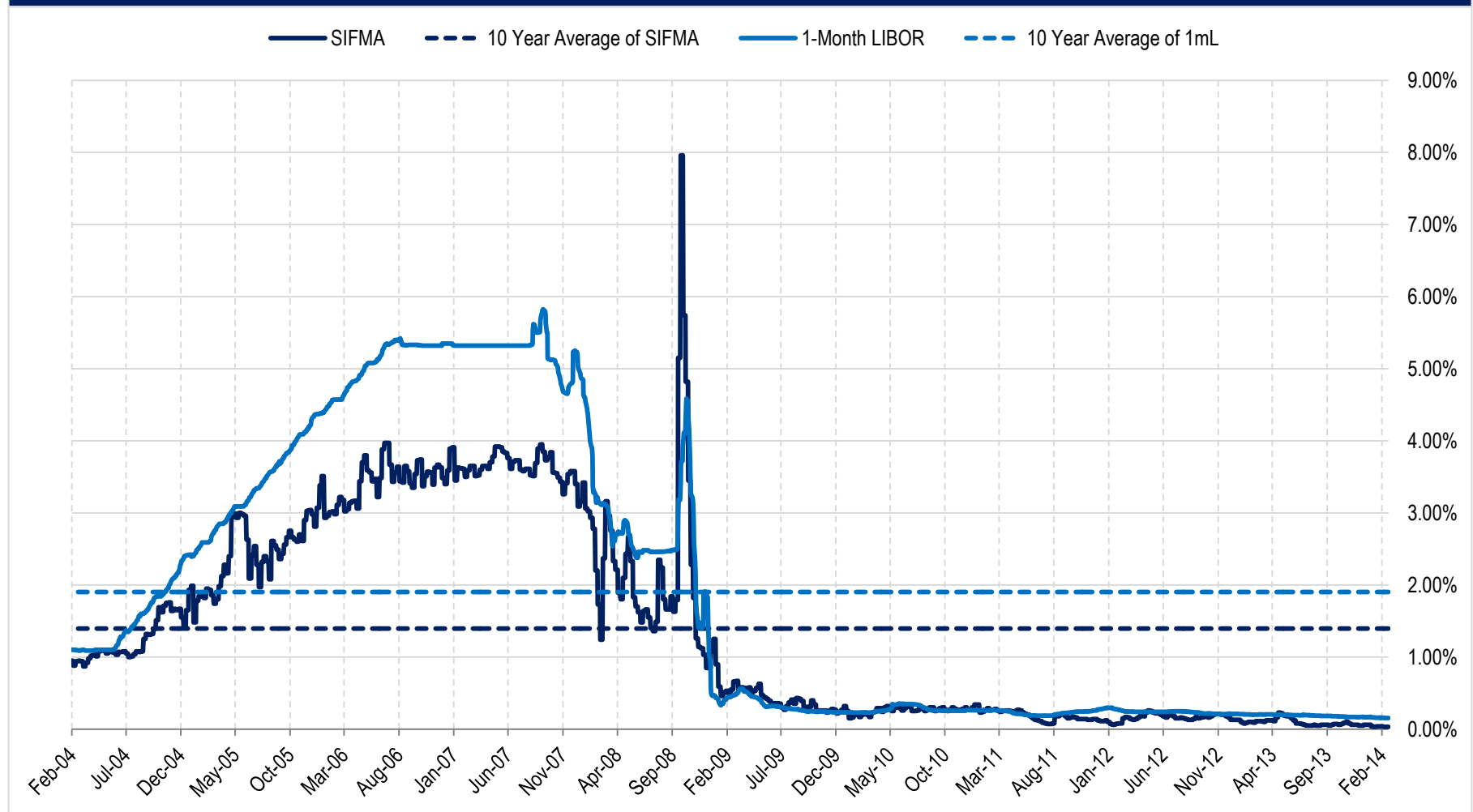


Maturity	Δ Since 11/30/13	Δ Since 01/02/13	Δ Since 01/02/14
2014	-0.03%	-0.05%	0.00%
2015	0.01%	-0.05%	-0.04%
2016	0.09%	0.00%	-0.08%
2017	0.28%	0.11%	-0.12%
2018	0.45%	0.25%	-0.23%
2019	0.74%	0.54%	-0.23%
2020	0.96%	0.68%	-0.25%
2021	1.08%	0.78%	-0.23%
2022	1.10%	0.79%	-0.24%
2023	1.04%	0.73%	-0.28%
2024	1.08%	0.76%	-0.27%
2025	1.16%	0.81%	-0.29%
2026	1.23%	0.85%	-0.33%
2027	1.28%	0.89%	-0.36%
2028	1.33%	0.94%	-0.37%
2029	1.37%	0.98%	-0.37%
2030	1.40%	1.01%	-0.37%
2031	1.42%	1.03%	-0.37%
2032	1.44%	1.04%	-0.35%
2033	1.43%	1.02%	-0.36%
2034	1.42%	1.00%	-0.36%
2035	1.40%	0.98%	-0.36%
2036	1.37%	0.95%	-0.37%
2037	1.34%	0.93%	-0.37%
2038	1.33%	0.94%	-0.36%
2039	1.36%	0.97%	-0.35%
2040	1.37%	0.98%	-0.36%
2041	1.38%	0.99%	-0.35%
2042	1.38%	0.99%	-0.35%
2043	1.38%	0.99%	-0.35%

SHORT-TERM INTEREST RATE HISTORY

- Short-term rates remain at historically low levels

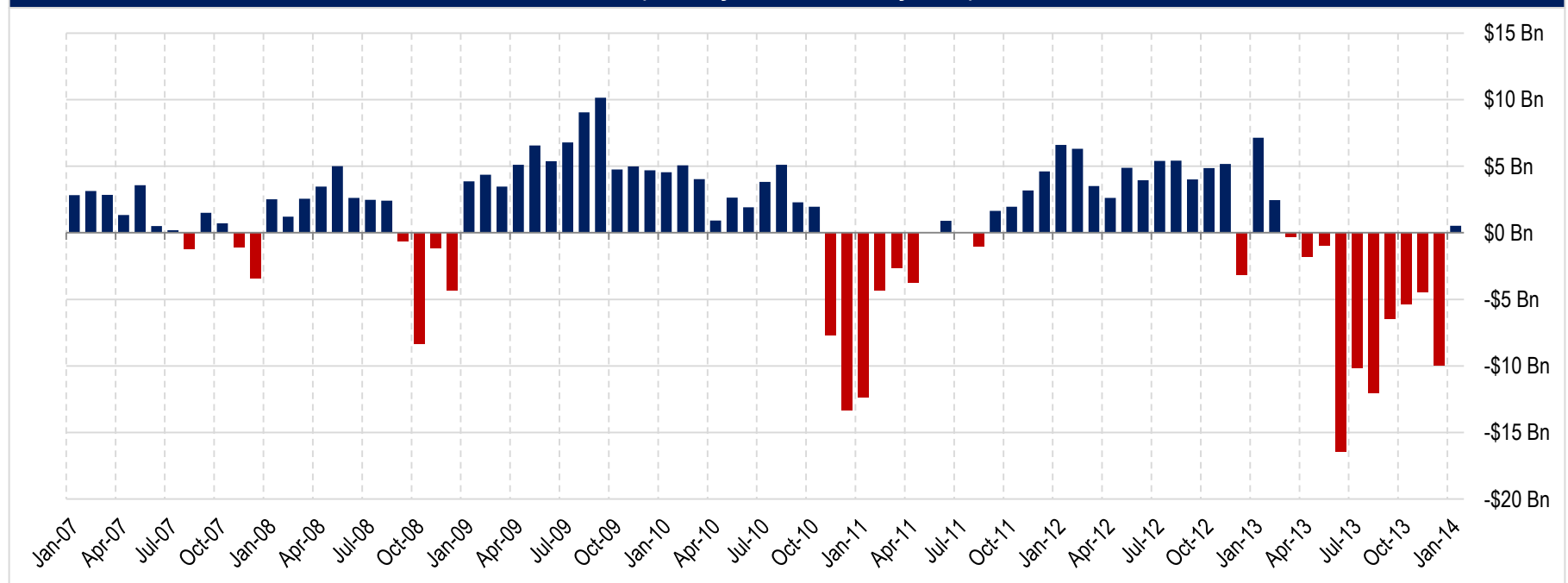
SIFMA and 1-Month LIBOR History and Position
(February 1, 2004 to February 18, 2014)



MUNICIPAL MARKET DEMAND

- Tax-exempt bond funds experienced significant net outflows of nearly \$60 billion in 2013
 - Trend was a reversal of 2012 which saw net inflows of almost \$50 billion
 - Outflows since June 2013 year totaled almost \$65 billion
 - December 2013 was the tenth consecutive month of outflows
- Given the January 1 coupon redemption date, municipal bond funds typically see inflows during January
 - In 2014, supply/redemption dynamics should counter the impact of any continued outflows in the municipal market

Net Long-Term Municipal Bond Mutual Fund Flows
(January 2007 to January 2014)

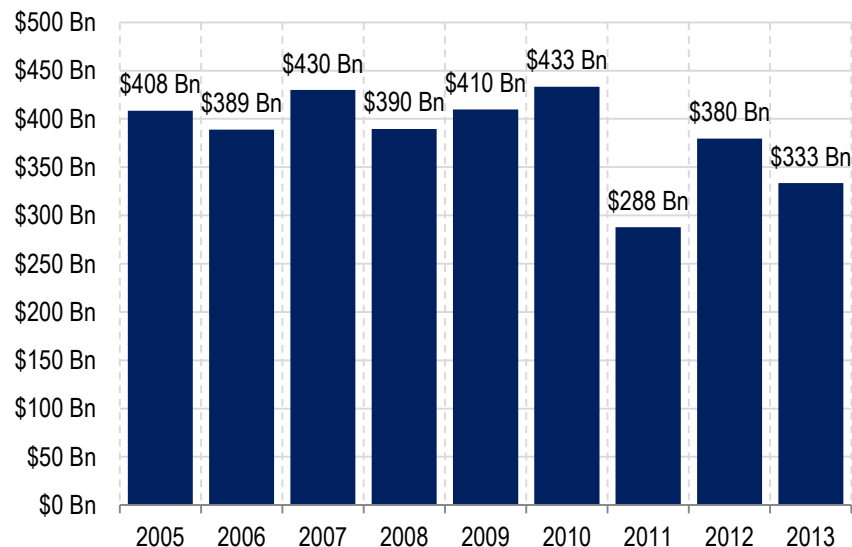


MUNICIPAL MARKET SUPPLY

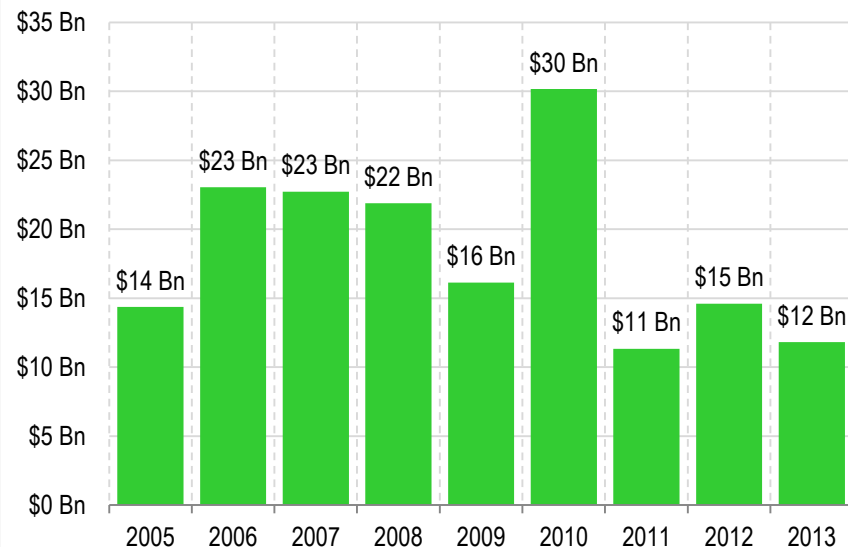
- Overall municipal market volume in 2013 fell 12% to \$333 billion from \$380 billion in 2012 as volatility in the markets and rising interest rates deterred both new money and refunding issuances
- Public power volume in 2013 fell 19% to \$12 billion from \$15 billion in 2012
 - 4% of total municipal issuance, in line with 2011 and 2012, and down from 7% in 2012
 - Issuance was dominated by a handful of issuers: LIPA, Santee Cooper, LADWP, LCRA, and PREPA accounted for over half of all public power volume
- Various market participants are forecasting a 10-15% decline in new issue volume in 2014 to \$280-\$300 billion as a result of a combination of lower refunding activity and modest new money financing.

Issuance Volume History
(2005 - 2013)

Overall Municipal Market Volume



Public Power Volume



BOND YIELD FORECASTS

- The table below provides an average of interest rate forecasts by industry professionals compiled

The Street's Interest Rate Forecast (As of February 18, 2014)							
Average Forecasts	Current	Q1 14	Q2 14	Q3 14	Q4 14	Q1 15	Q2 15
30-Year UST	3.68%	3.85%	3.99%	4.11%	4.23%	4.31%	4.42%
10-Year UST	2.71%	2.91%	3.06%	3.20%	3.35%	3.48%	3.60%
2-Year UST	0.30%	0.41%	0.50%	0.62%	0.77%	0.88%	1.04%
3M LIBOR	0.23%	0.28%	0.31%	0.34%	0.38%	0.43%	0.54%
Fed Funds Target Rate	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.38%

- Most economists see a steady rise in rates as the Federal Reserve phases out its Quantitative Easing program
 - However, the Federal Reserve is expected to maintain the Federal Funds rate at the 0.00% - 0.25% level through 2014 as inflation remains below the Federal Reserve's long run goal and the unemployment rate is still at 6.7%

FEDERAL DEBT CEILING BILL AND SEQUESTRATION UPDATE

- The President signed a debt ceiling bill over the weekend, which frees up federal borrowing capacity until March of 2015, eliminating the chance of a default in that time period
 - As a result, the SLGS program has been reinstated
- The bill also includes an amendment which will extend sequestration (including cuts to subsidies for BABs and other direct pay subsidy bond programs) for an additional year, to 2024
 - The December 2013 bipartisan budget agreement included a 2-year extension of the sequestration beyond the initially planned 2021 final year out to 2022 and 2023
 - The current federal fiscal year subsidy reduction is 7.2%. This is reset every year on October 1

MUNICIPAL MARKET UPDATE

2008 HYDROELECTRIC BONDS LOC EXPIRATION

SUMMARY OF 2008 HYDROELECTRIC BONDS

- NCPA's 2008 Hydroelectric Bonds are backed by a Letter of Credit from Citibank, N.A.
 - These facilities expire on Sep. 27, 2014
 - The fee for these facilities is 50 bps
- NCPA last renewed the facilities with Citi back in September 2011 for three years
- NCPA and Hydroelectric Project Members should begin considering steps to replace / renew the facilities
 - New LOC fees should be lower than the current 50 bps level; however, a consideration will be if any new proposed fees from a different provider will be low enough to justify the additional costs associated with a replacement versus a renewal
- The 2008 Hydroelectric Bonds have been trading well
- The 2008A Hydroelectric Bonds are hedged by a fixed-payer swap with Citibank and the 2008B Hydroelectric Bonds have an associated LIBOR receiver swap also with Citibank

Summary of 2008 Hydroelectric Bonds		
Feature	2008 A	2008 B
Par Amount	\$85,160,000	\$3,165,000
Par Amount Outstanding	\$85,160,000	\$2,365,000
Final Maturity	July 1, 2032	July 1, 2020
Security Type	VRDBs	VRDBs
Tax Status	Tax-Exempt	Taxable
Liquidity Type	Letter of Credit	Letter of Credit
Liquidity Provider	Citibank, N.A.	Citibank, N.A.
Liquidity Provider Ratings	LT: A2/A/A ST: P-1/A-1/F1 Stable/Stable/Stable	LT: A2/A/A ST: P-1/A-1/F1 Stable/Stable/Stable
Liquidity Termination	September 27, 2014	September 27, 2014
Current Liquidity Cost	50 bps	50 bps
Credit Ratings	S&P: AAA/A-1 ; Fitch: AA/F1	S&P: AAA/A-1 ; Fitch: AA/F1
Underlying Credit Ratings	S&P: A+ ; Fitch: A+	S&P: A+ ; Fitch: A+
Mode	Weekly	Weekly
Remarketing Agent	Citigroup Global Markets	Citigroup Global Markets
Latest Trading Level	0.03%	0.12%
Hedge Status	Hedged	Unhedged (LIBOR Receiver)
Swap Counterparty	Citibank, N.A.	Citibank, N.A.
Reserve Fund	No	No

Summary of 2008 Hydroelectric Bond Swaps						
Related Series	NCPA Pays	NCPA Receives	Maturity Date	MTM Value	Current Notional	Bank Counterparty
2008A	3.8190%	54% of USD-LIBOR + 0.54%	07/01/2032	(\$15,911,573.83)	\$85,160,000.00	Citibank, N.A.
2008B	USD-LIBOR	5.2910%	07/01/2032	\$274,110.62	\$1,320,505.00	Citibank, N.A.