

FHLBC Solutions



Highlights of the Investment Spreads Report

Nick Simoncelli, Senior Analyst, Sales, Strategy, and Solutions

Ashish Tripathy, Managing Director, Sales, Strategy, and Solutions

Q1 2020

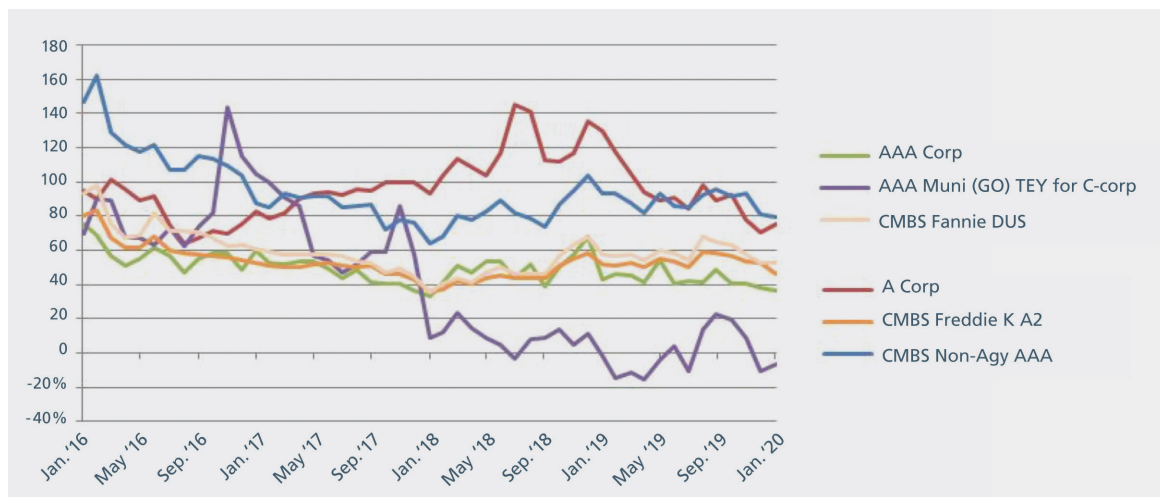
Overview

Members of the Federal Home Loan Bank of Chicago (FHLBank Chicago) maintain investment portfolios as a source of liquidity and additional income, as well as for asset/liability management. In this paper, we comment on FHLBank Chicago's Investment Spreads report and how these spreads relate to advances. As your trusted advisors, we hope to provide insights into the bond market for highly rated securities typically available to our members. FHLBank Chicago advance borrowings can help fund investment strategies using these assets, and contribute to the bottom line. In many cases, the use of swaps in fair-value or cash-flow hedge strategies can enhance financial institutions' income and help manage their interest-rate risk.

Historical Spread Comparison

Pages 1 and 2 of the report compare the spreads of various securities. The measures used include swap spread, LIBOR option-adjusted spread (LOAS), and discount margin. The spread type is based on the category of the security and the benchmark by which it's measured. For example, non-mortgage-backed-security investments with bullet cash flows are typically measured by the spread over swaps. In contrast, MBS pass-through investments have embedded options that allow for prepayment, so those assets are compared using LOAS.

Figure 1: Long-Term (7- to 10-Year) Fixed Rate Spreads over Swaps for Non-MBS Bullet Cash Flows



Source:
FHLBank Chicago
analysis as of 1/31/20

Figure 1 is an example of a historical spread comparison chart. Various investment-grade fixed rate bonds typically available to members are displayed here. The spreads are recorded on the last day of each month. The asset categories include corporate bonds (corp), municipal bonds (muni), and commercial mortgage-backed securities (CMBS).

Members can compare these assets of similar duration and structure to help value risk and reward. For example, senior non-agency CMBS rated AAA had a spread of 80 basis points over swap rates as of January 31, 2020—the highest spread of the bonds displayed in the long-term fixed category. However, members may or may not be comfortable with the risks of that sector. They may instead prefer the agency guarantee of Fannie Mae Delegated Underwriting and Servicing (DUS) bonds, with a spread of 53 basis points. Alternatively, members may wait for other historically high-spread assets, such as single A corporate bonds, to return to levels seen in 2018. Some insights from the report may lead members to avoid certain asset classes. For example, AAA general obligation municipal bond spreads have turned negative to swaps on a tax-equivalent yield (TEY) basis, assuming a C corporation tax rate of 21%. Member banks may find these assets unattractive, while high-net-worth individuals at higher tax rates may prefer them.

Page 3 of the report displays the starting net interest margin (NIM) obtainable by funding assets with fixed rate advances ranging from 1 month to 10 years in duration. All the sectors within the historical spreads comparison charts are listed in this section.

Figure 2: Fixed Rate Investment Spreads vs. Advances

Intermediate Fixed (3 to 5 year)	Yield %	Duration (years)	Spread of Investment Yields over Fixed Rate Advances (bps)										
			1m	2m	6m	1Y	2Y	3Y	4Y	5Y	6Y	7Y	10Y
AAA Corporate	1.59	4.0						4	2				
A Corporate	1.95	4.1	22	21	20	23	36	40	38	36	24	17	
CMBS Fannie DUS	1.75	4.0	2	1		3	16	20	18	16	4		
CMBS Non-Agency AAA	1.85	4.8	12	11	10	13	26	30	28	26	14	7	

Source: FHLBank Chicago advance rates and analysis as of 1/31/20

As shown in Figure 2, Fannie Mae CMBS DUS bonds could earn 18 basis points over 4 years if funded with a 4-year fixed rate advance. DUS bonds are balloon amortizing cash flows with prepayment protection. The structure is designed so that the borrower pays interest amortized over many years (typically 25 to 30), but with the full principal due back in a shorter time (typically 10 years), referred to as a balloon payment. The borrower would have to pay a penalty in order to prepay. The bond's interest rate is fixed, and matches well with fixed rate advances.

Figure 3: Floating Investment Spreads vs. Advances

Floating Rate Bullets	DM	Duration (years)	Fixed (bps)		13-w DN Floaters (bps)					
			1m	3m	6m	1Y	2Y	3Y	4Y	5Y
FFELP Student Loan	68	4.0	61	60	50	50	33	29	25	24
AAA CLO	126	4.0	119	118	108	108	91	87	83	82
AA CLO	177	4.0	170	169	159	159	142	138	134	133
A CLO	235	4.0	228	227	217	217	200	196	192	191

Source: FHLBank Chicago advance rates and analysis as of 1/31/20

As shown in Figure 3, AAA floating rate collateralized loan obligations (CLOs) float off the 3-month LIBOR rate with a discount margin of 126 basis points. In other words, holders of AAA CLOs would earn a yield of 3-month LIBOR + 126 basis points. This security could be match-funded with a 4-year, 13-week discount note floater and earn a spread of 83 basis points. Alternatively, members could take a 3-month fixed rate advance to earn a spread of 118 basis points to start, and then continue to roll the advance every three months.

Members may find investment opportunities that differ from FHLBank Chicago's spreads listed in this report. The Solutions team will also provide customized analysis of funding options with interest rate shocks on any CUSIP purchased or being considered. Contact your Sales Director for the full Investment Spreads Report.

To Learn More

If your institution would like more specific information about these strategies, please reach out to your Sales Director at membership@fhlbc.com.

Contributors



Nick Simoncelli
Senior Analyst,
Sales, Strategy,
and Solutions



Ashish Tripathy
Managing
Director, Sales,
Strategy, and
Solutions

Disclaimer

The data, scenarios, and valuations provided to you in this paper are for information purposes only and are provided as an accommodation and without charge. The data, scenarios, and valuations are estimates only and may not represent the actual or indicative terms at which new (or economically equivalent) transactions could be entered into or the actual or indicative terms at which existing (or economically equivalent) transactions could be prepaid, terminated, liquidated, assigned, or unwound. The scenarios and valuations were derived using proprietary pricing models and estimates and assumptions about relevant future market conditions and other matters, all of which are subject to change without notice. The scenarios in this paper were prepared without any consideration of your institution's balance sheet composition, hedging strategies, or financial assumptions and plans, any of which may affect the relevance of these scenarios to your own analysis. The Federal Home Loan Bank of Chicago makes no representations or warranties about the accuracy or suitability of any information in this paper. This paper is not intended to constitute legal, accounting, investment, or financial advice or the rendering of legal, accounting, consulting, or other professional services of any kind. You should consult with your accountants, counsel, financial representatives, consultants, and/or other advisors regarding the extent these scenarios may be useful to you and with respect to any legal, tax, business, and/or financial matters or questions.