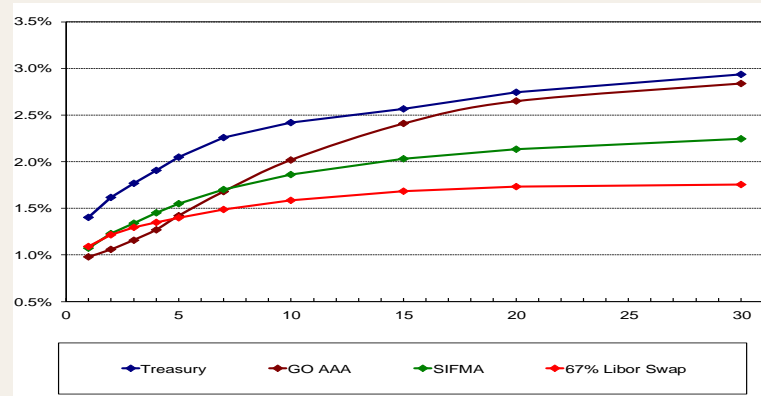


Cash and Swap Indications

Years	Treasury	MMD GO AAA	SIFMA Swap	Libor Swap	SIFMA / Libor Ratio	Investment Agreement (GIC)	Repurchase Agreement
1	1.40%	0.98%	1.08%	1.63%	66%	1.63%	0.90%
2	1.62%	1.06%	1.23%	1.81%	68%	1.81%	1.20%
3	1.77%	1.16%	1.34%	1.93%	69%	1.93%	1.25%
4	1.91%	1.27%	1.45%	2.02%	72%	2.02%	1.30%
5	2.05%	1.42%	1.55%	2.09%	74%	2.09%	1.38%
7	2.26%	1.68%	1.70%	2.22%	77%	2.22%	1.50%
10	2.42%	2.02%	1.86%	2.37%	79%	2.37%	1.75%
15	2.57%	2.41%	2.03%	2.52%	81%	2.52%	1.85%
20	2.75%	2.65%	2.13%	2.59%	83%	2.59%	1.85%
30	2.94%	2.84%	2.25%	2.62%	86%	2.62%	2.20%

Investment agreement and repurchase agreement rates are for full flex amortizing contracts and vary based on the average life and size of the contract. Repurchase agreements assume agency collateral.

Yield Curve Comparison 10/30/2017



Weekly Rate Trend – Rates Higher

ECONOMIC EVENTS				
Monday	Tuesday	Wednesday	Thursday	Friday
10/30/17	10/31/17	11/1/17	11/2/17	11/3/17
Personal Income Personal Spending Real Personal Spending PCE Deflator MoM/YoY PCE Core MoM/YoY Dallas Fed Manf. Activity	Employment Cost Index S&P CoreLogic CS 20-City MoM/YoY/NSA S&P CoreLogic CS US HPI YoY S&P CoreLogic CS US HPI NSA Chicago Purchasing Manager Conf. Board Consumer Confidence Conf. Board Present Situation Conf. Board Expectations	MBA Mortgage Applications ADP Employment Change Markit US Manufacturing PMI ISM Manufacturing ISM Prices Paid ISM New Orders ISM Employment Construction Spending MoM FOMC Rate Decision Wards Total Vehicle Sales Wards Domestic Vehicle Sales	Challenger Job Cuts YoY Initial Jobless Claims Continuing Claims Nonfarm Productivity Unit Labor Costs Bloomberg Consumer Comfort	Change in Nonfarm Payrolls Two-Month Payroll Net Revision Change in Private Payrolls Change in Manuf. Payrolls Unemployment Rate Average Hourly Earnings MoM/YoY Average Weekly Hours All Employees Labor Force Participation Rate Underemployment Rate Trade Balance ISM Non-Manf. Composite Factory Orders Factory Orders Ex Trans Durable Goods Orders Durables Ex Transportation Cap Goods Orders Nondef Ex Air Cap Goods Ship Nondef Ex Air Markit US Services PMI Markit US Composite PMI
11/6/17	11/7/17	11/8/17	11/9/17	11/10/17
Mortgage Delinquencies MBA Mortgage Foreclosures	JOLTS Job Openings Consumer Credit	MBA Mortgage Applications	Initial Jobless Claims Continuing Claims Bloomberg Consumer Comfort Wholesale Trade Sales MoM Wholesale Inventories MoM	U of Michigan Sentiment U of Michigan Current Conditions U of Michigan Expectations U of Michigan 1 Year Inflation U of Michigan 5-10 Year Inflation Monthly Budget Statement

MARKET INDICES

Wednesday Reset Rates

	Current	Last Week
SIFMA	0.92%	0.91%
1 mo LIBOR	1.240%	1.2389%
Ratio	74.19%	73.45%
3 mo LIBOR	1.37%	1.36%
Weekly CP (non-financial)	1.07%	1.12%