

Investment Strategies for Rising and Volatile Rates

Kevin T. Lynch
Managing Director – Investments

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Slide Link

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<http://bit.ly/2022-06-29-oppenheimer>

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Questions Box

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Please take our post-event survey. We
value your feedback!

Are you ready for Rising Rates?

*The new
Tightening Cycle
is 150 BPS in...*

More to come?



Different reasons for joining me today...

- My CU doesn't invest much, but I am curious about another outlook on interest rates.
- Cash is still too high, but I'm not sure what to do when rates are moving around so much.
- I still need yield/earnings, but interest-rate risk is starting to get uncomfortable....
- My unrealized loss \$'s are crazy, and my Board won't stop asking me about it.

The Credit Union Investment Strategy Group

Credit Union Team w/ over 100 years Combined Experience

- Fixed Income Professionals (9 person Team) – Offering full service regulatory reporting and 3rd party bond accounting service
- Team works with credit unions across the country - Providing on-site visits with management and the Board regarding their investment portfolio / Provides ongoing investment education to management and the Board

Investment Yield

- Focusing on Investment Yield can make a critical difference in the portfolio
- Innovative Investment Strategies – We act as a strategic partner with our clients, who commit to a once per month strategy call. No constant solicitations via email/phone.
- Addressing Investment Portfolio Yield has put some CU's in the top tier for their respective state, as captured by NCUA.gov. (public data)

TEAM MEMBER RESPONSIBILITIES		
	Mark B. Wickard Managing Director – Investments mark.wickard@opcocom (517) 333-7762	<ul style="list-style-type: none">• Managing Director and Head of the Credit Union Investment Strategy Group• Director of Product & Business Development• Provides Economic & Market Commentary• Portfolio Strategist
	Tobias E. Timm Executive Director – Investments tobias.timm@opcocom (517) 333-7791	<ul style="list-style-type: none">• Portfolio Evaluation, Fixed Income & Credit Analysis• Strategy & Trade Execution• Product Origination/Trading Desk Liaison (Internal and External)• Portfolio Strategist
	Regina Wickard Managing Director – Investments regina.wickard@opcocom (517) 333-7760	<ul style="list-style-type: none">• Director of Business Development• Director of Operations for Team & Clients – Lines of Credit, Due Diligence, etc.• Regulatory Oversight including Investment Policy Statements• Client and Prospect Development
	Kevin T. Lynch Managing Director – Investments kevin.lynch@opcocom (517) 333-7761	<ul style="list-style-type: none">• Oversees the Technical Aspect of all Analytics• Bond Accounting Inquiries• Develop & Implement Pre / Post Purchase Fixed Income & Credit Analysis, Strategy & Trade Execution
	Elizabeth L. Duncan Group Analytical Associate – Director elizabeth.duncan@opcocom (517) 333-7764	<ul style="list-style-type: none">• Responsible for Customized Client Reports, Valuation and Analytics• Regulatory Mandated Reporting and Analytics – 5703 Quarterly Report, Monthly Pricing, HTR (Historic Total Return), Credit Surveillance• Pre-Analysis Portfolio Preparatory Work
	Bryan L. Bell Group Analytical Associate bryan.bell@opcocom (517) 333-7759	<ul style="list-style-type: none">• Account Management & Administration• Prospect, Marketing & New Client Acquisition• Customized Client Reporting• Client Support / Legal Documentation / Asset Protection
	Isaiah J. Timm Senior Director – Investments isaiah.timm@opcocom (517) 333-7765	<ul style="list-style-type: none">• Portfolio Management• Risk Management Strategies• Asset Preservation and Growth• Coordinate work with Directors
	Seth A. Kellicut Group Marketing Associate seth.kellicut@opcocom (517) 333-7769	<ul style="list-style-type: none">• New Business Development• Relationship and Account Management• Event Coordination• Marketing and Educational Materials
	Noah E. Timm Associate Director – Investments noah.timm@opcocom (517) 333-7763	<ul style="list-style-type: none">• Portfolio Management• New Business Development• Risk Management Strategies• Coordinate with Directors
	Amanda B. Wickard Financial Consultant amanda.wickard@opcocom (517) 333-7767	<ul style="list-style-type: none">• New Business Development• Event Coordination• Credit Union League Outreach-Sponsorship / Speaking• Ongoing Client & Prospect Communication

Today's Topics

The FED Tightening Cycle began in March and has seen +150bps of HIKES so far. The impact has already been felt by Credit Unions nationwide. This will likely persist as the current interest rate cycle continues to play out...

- I. Interest rates... Where are we and where we might be headed going in 2022 and beyond?
- II. How are Rising Rates affecting my credit union?
- III. What can I do now...Can the investment portfolio help?
- IV. Practical application of a Floating-Rate Investment Strategy

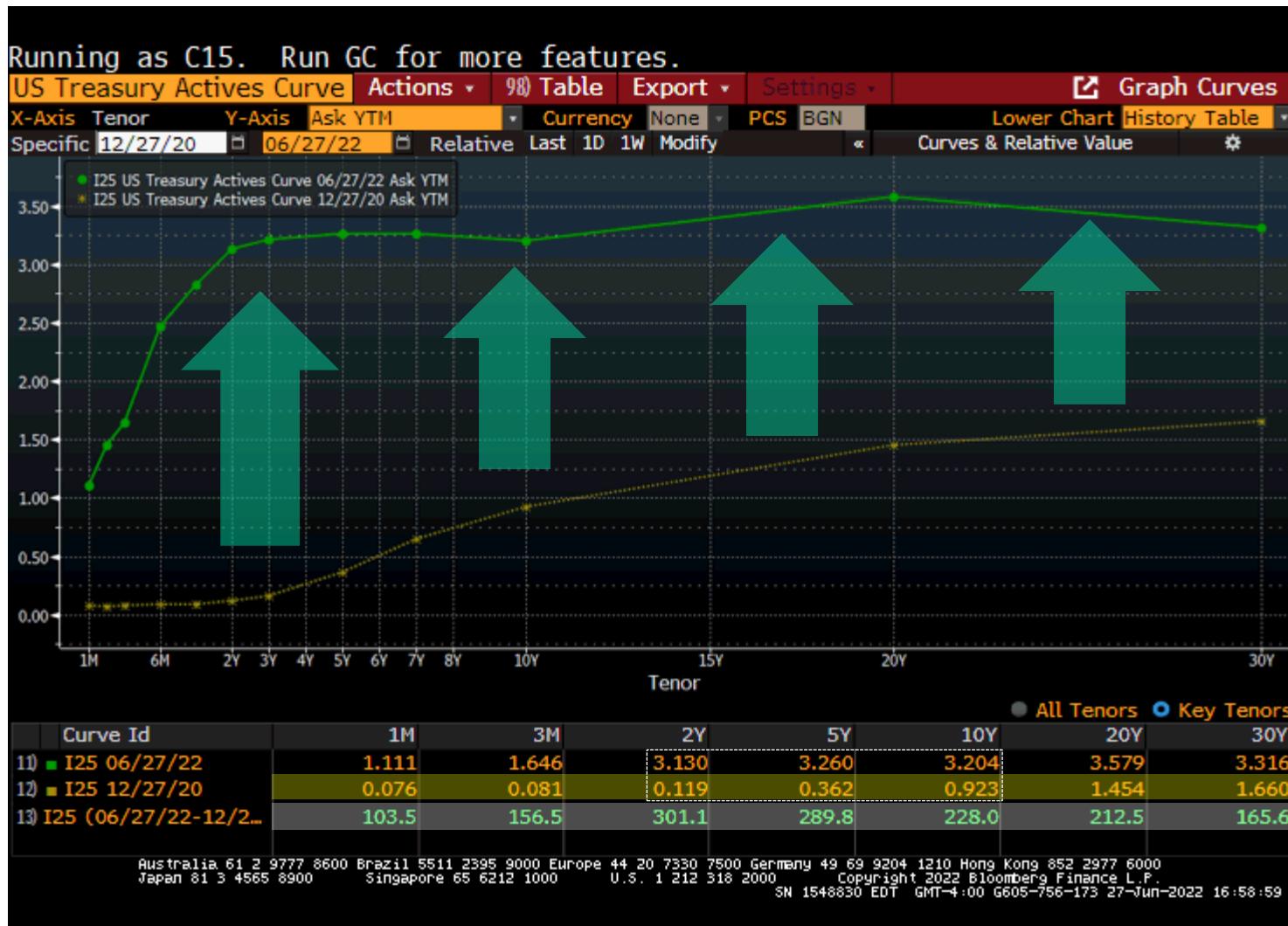
SECTION I

Where are we now?

And

*Where are Interest Rates going in
2022 and beyond?*

Yield Curve Today Vs. 18-Months Ago



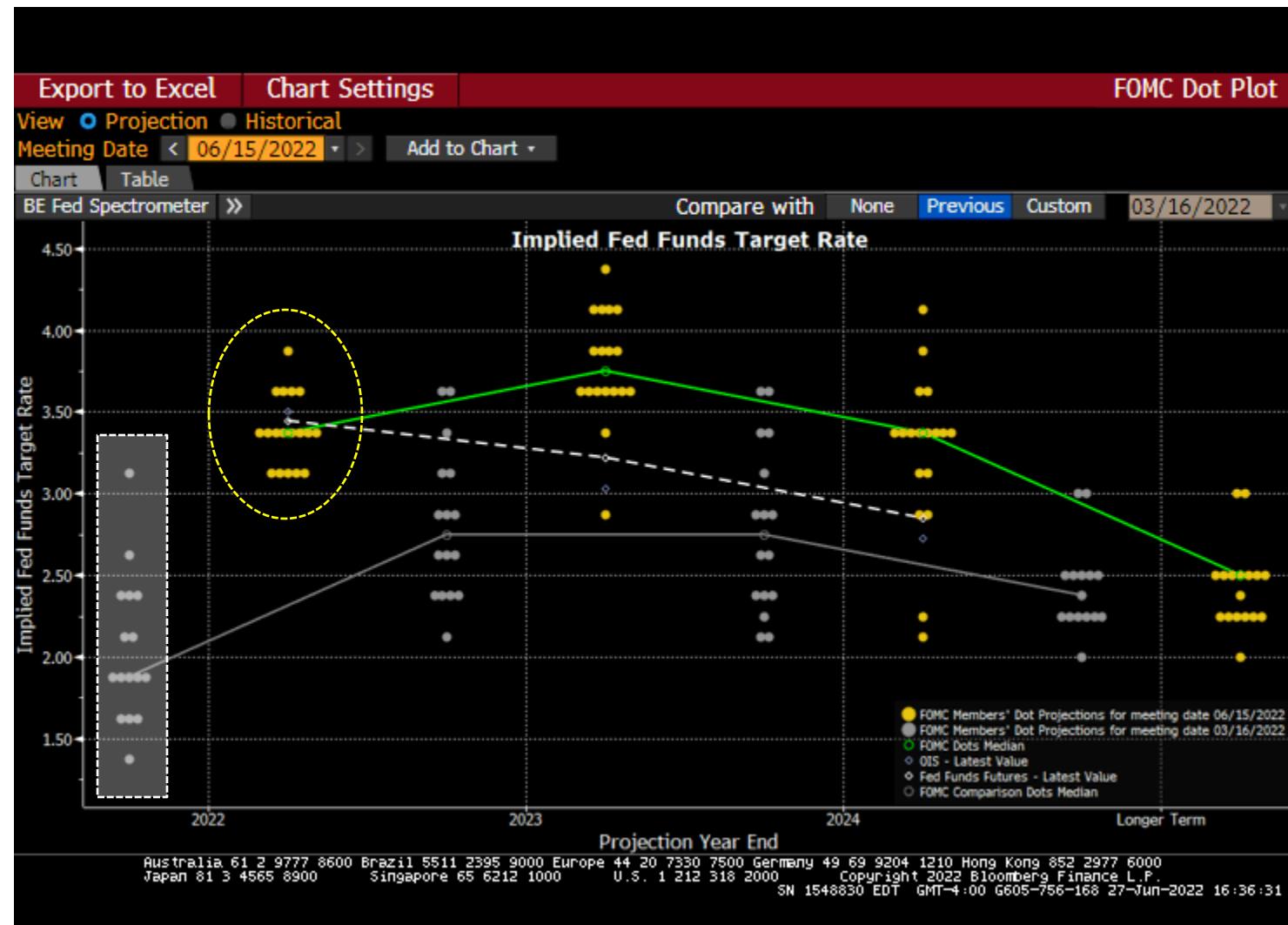
Source: Bloomberg

Interest-Rate Expectations From the FED

The JUNE 2022
DOT PLOT
indicates a
steeper rate path
than previously
anticipated...

FED FUNDS = 1.75%

- Y/E 2022 3.40%
- Y/E 2022 3.80%
- Y/E 2022 3.40%



Source: Bloomberg

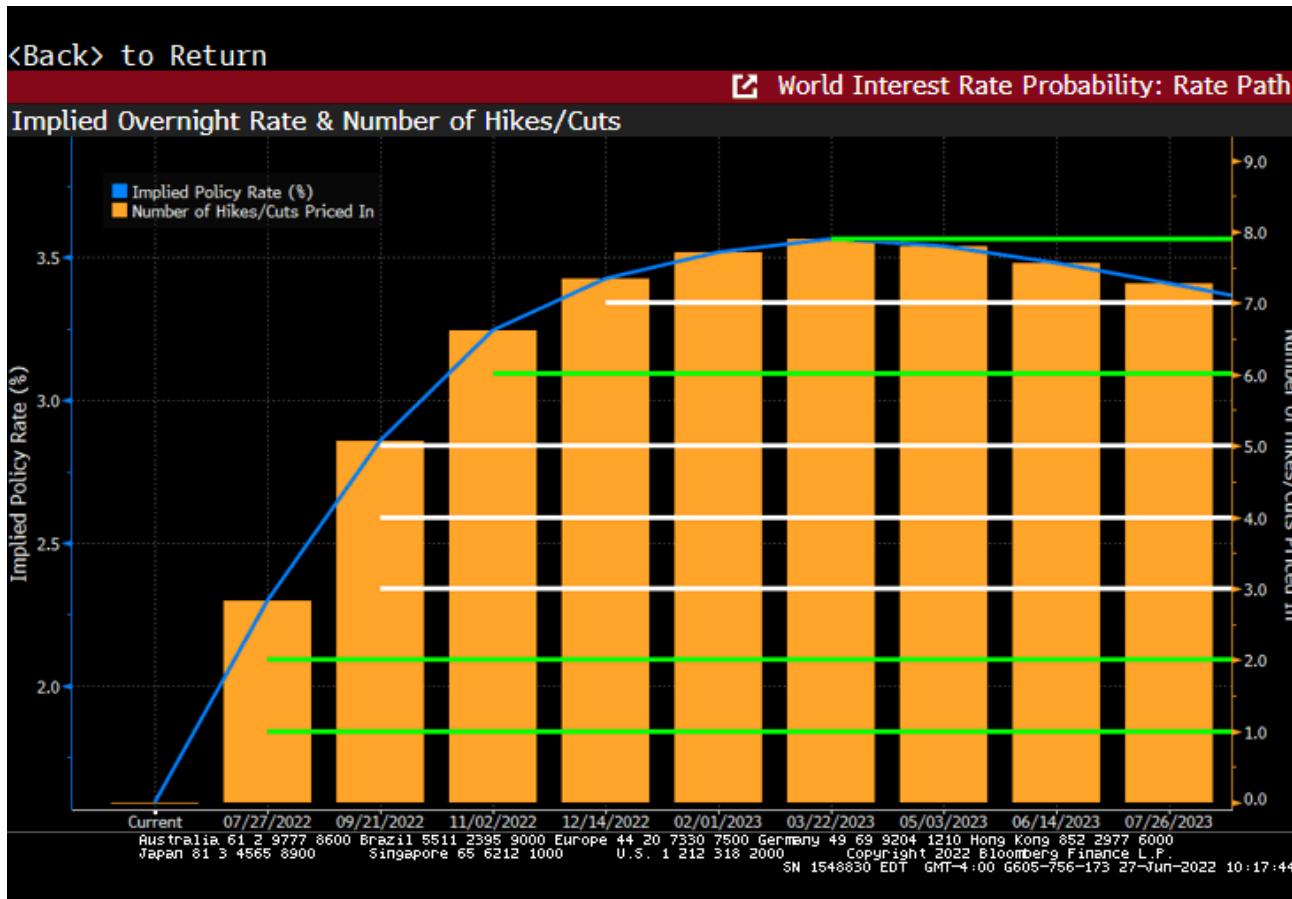
Bloomberg World Interest Rate Probability (WIRP)

JULY 2022 ~2.83 Rate Hike(s) priced in (Right Axis) | **2.297% Implied Rate** (Left Axis)

DEC 2022 ~7.35 Rate Hike(s) priced in (Right Axis) | **3.427% Implied Rate** (Left Axis)

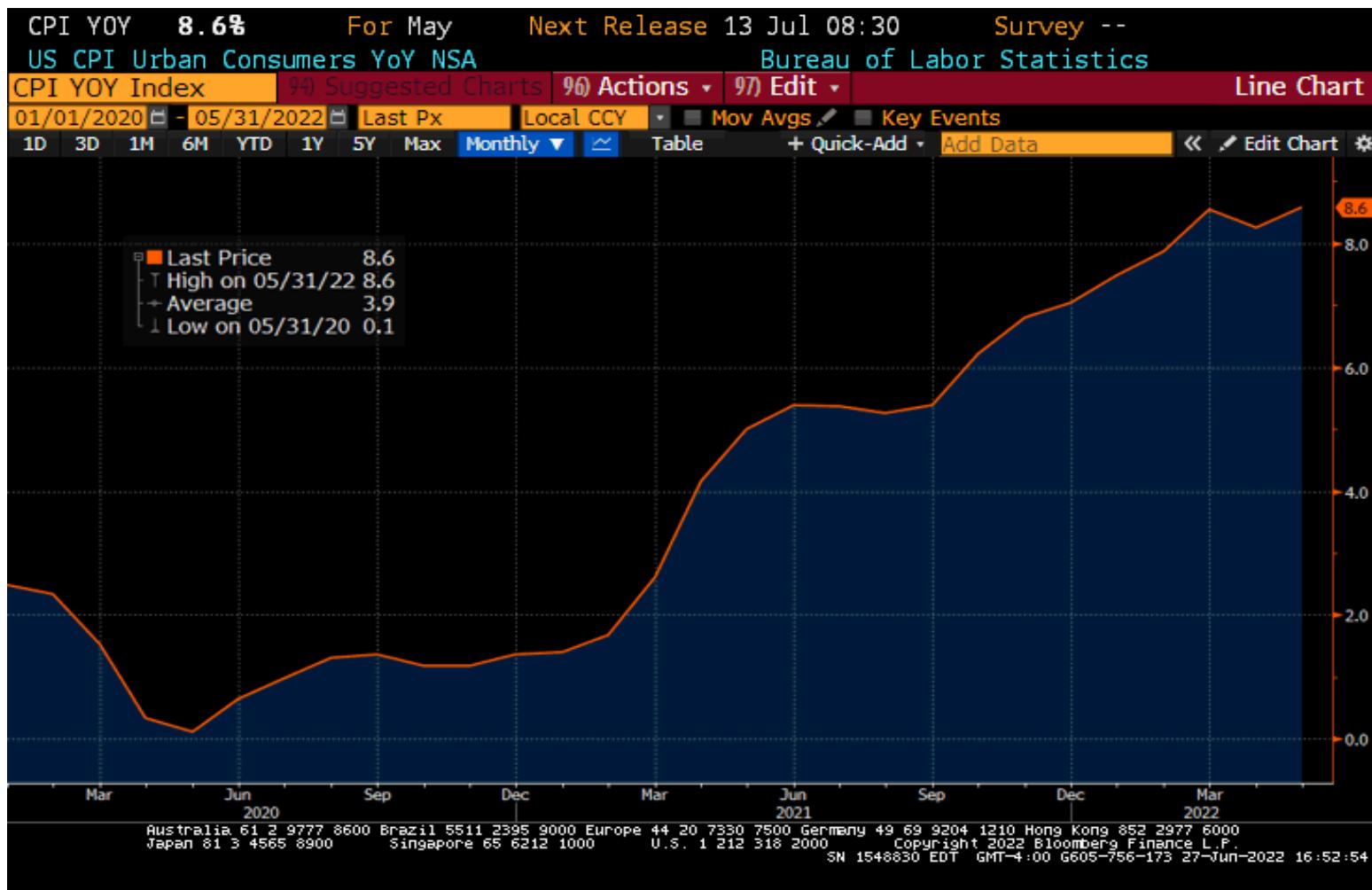
JUL 2023 ~7.28 Rate Hike(s) priced in (Right Axis) | **3.41% Implied Rate** (Left Axis)

**This graph can change daily depending on Fed Funds Futures activity



Source: Bloomberg

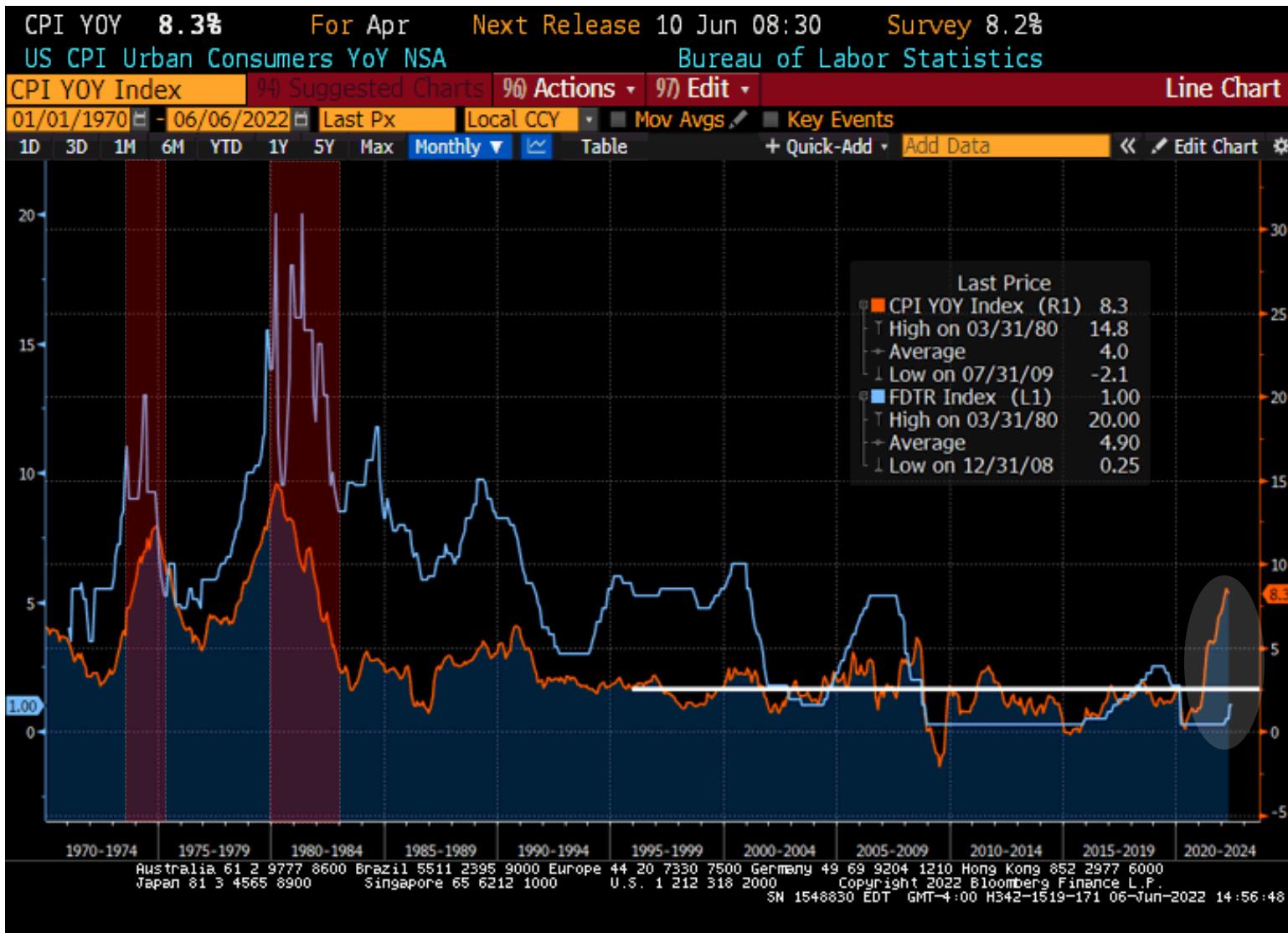
Inflation



Source: Bloomberg

Historical CPI YoY Vs FED FUNDS

MAR 1980 CPI HIGH = 14.8% | FED FUNDS = 20.0% (Upper)



Source: Bloomberg

SECTION II

How are Rising Rates affecting
my Credit Union?

**A Tightening Cycle can put
pressure on Net-Interest Margin**

Overview of the CU Balance Sheet

*Where is the Balance Sheet **Susceptible to Rising Rates***

ASSETS (Interest Income)

LOANS:

RE LOANS - FIXED-RATE (15YR-30YR)

AUTO LOANS FIXED-RATE

RE LOANS FLOATING RATE (HELOC's)

CC LOANS Tied to PRIME

INVESTMENTS:

INVESTMENTS FIXED-RATE

INVESTMENTS FLOATING-RATE

LIABILITIES (Interest Expenses - COF)

SHARES

SHARE DRAFTS

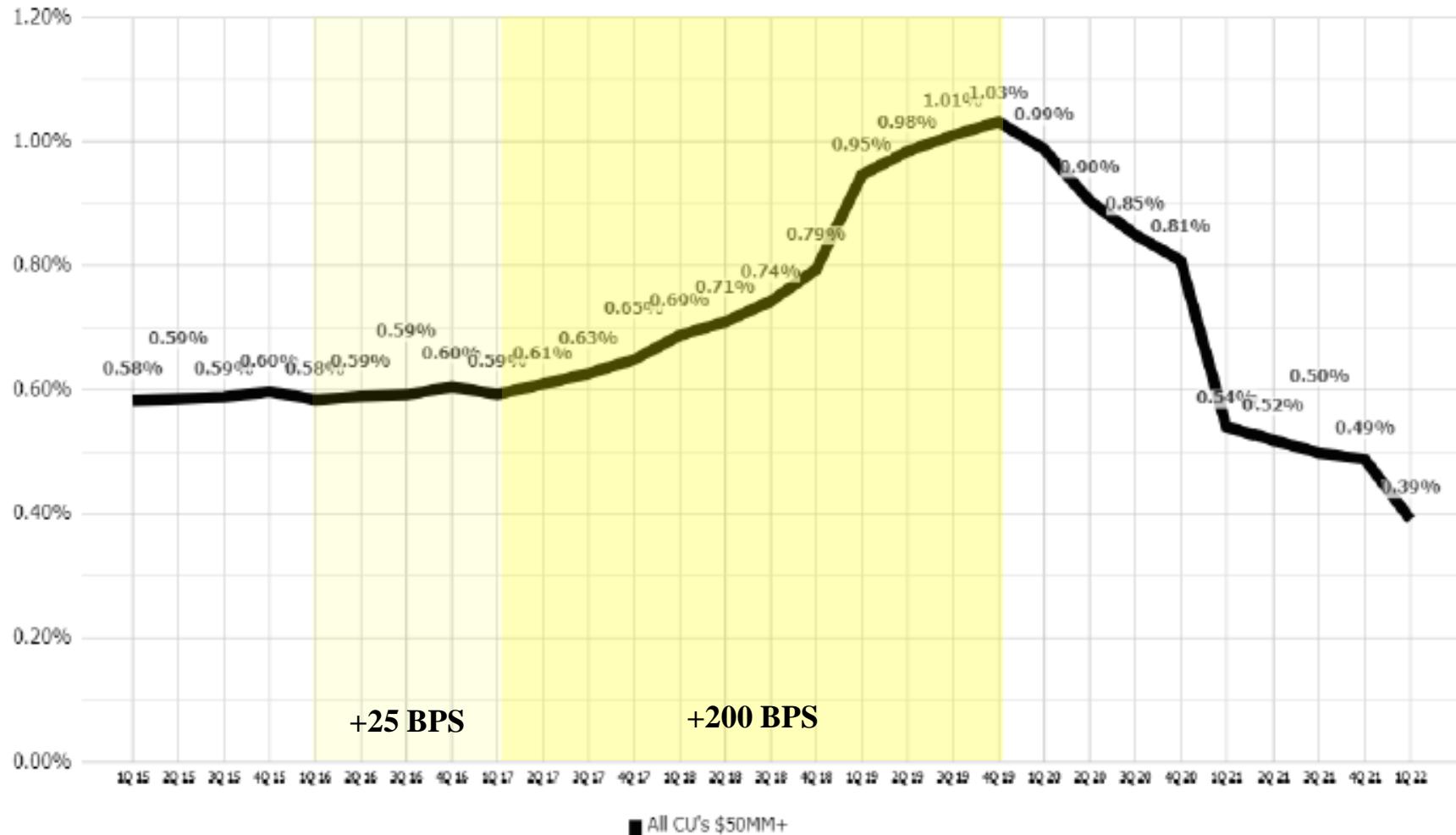
SHARES MONEY MARKET

SHARES CERTIFICATES

BORROWINGS FIXED-RATE

BORROWINGS FLOATING-RATE

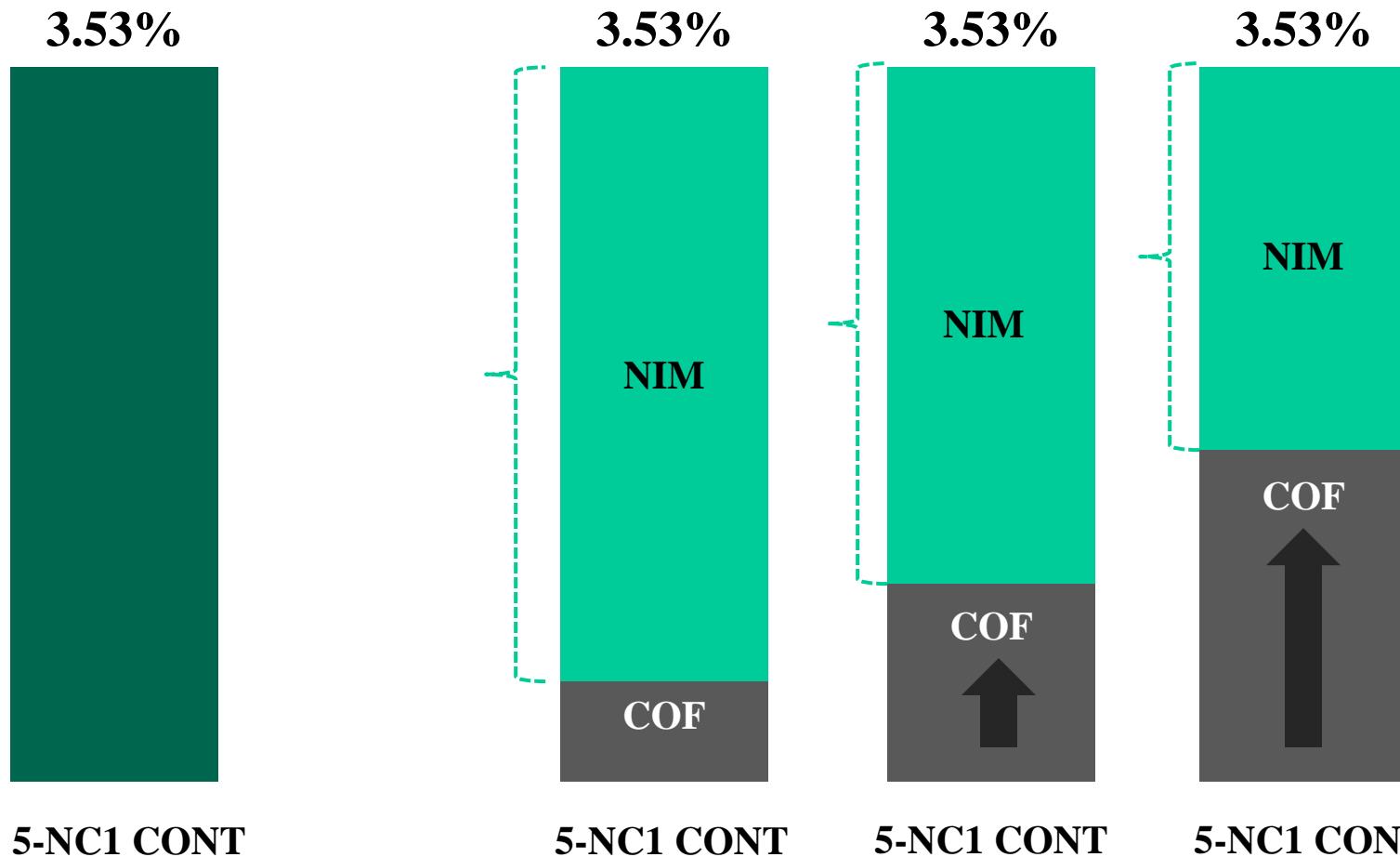
Average Cost of Funds - All CU's \$50MM+



Source: Callahan & Associates

Tightening Cycle *technically* started DEC 2015 with a 25BP Hike.. Then restarts in earnest in DEC 2016 until reaching 2.50% in DEC 2018. COF goes from a low of 58BPS to a high of 103 BPS, a *~77.5% increase*.

Example of How Margin Compression Works In A Rising Rate Environment



**Rising Interest Rates are causing
uncomfortable Unrealized Losses
in my AFS Investments**

=

Interest-Rate Risk

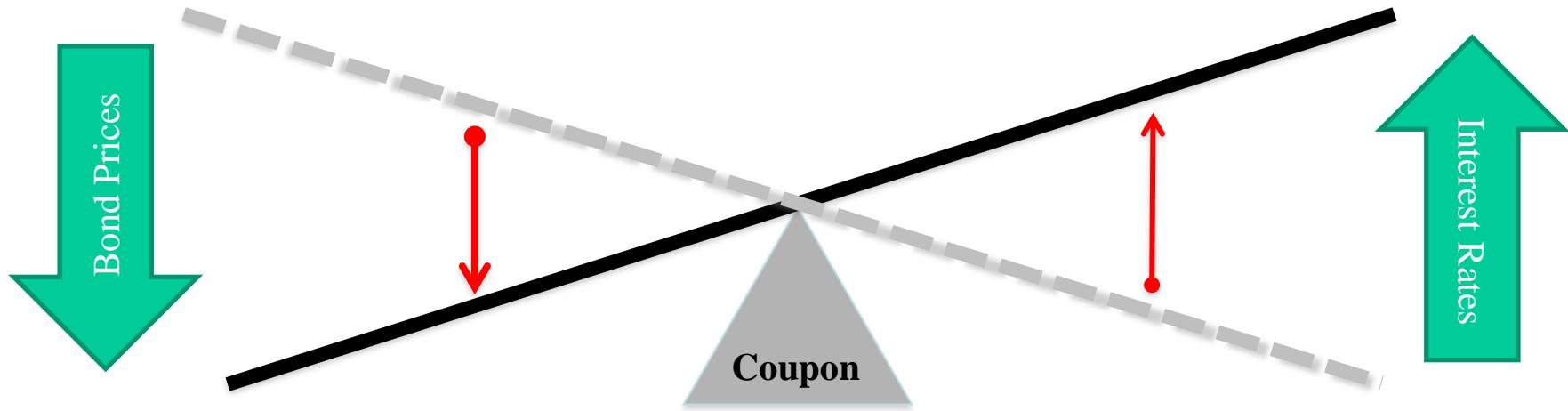
Historical 10YR US Treasury Yield | 1YR



Source: Bloomberg

~+165.9bps increase from Jan-Jun

A Basic Understanding of How Devaluation (Market Value Decline) Works with **Fixed Rate Investments**



The Bond Devaluation “Teeter Totter”

Modified Duration is the approximate percent change in a bond's price for a 100 BP change in yield assuming that the bond's cash does not change when yields change.

(Fabozzi, F. J., & Wickard, M. B. (1997). Measuring Interest Rate Risk. In *Credit Union Investment Management* (pp. 186–186). essay, Frank J. Fabozzi Associates.)

CPN = 3.15%
Px = \$100.00

YIELDS
+200Bps

CPN = 5.15%
Px = \$91.360

FAMCA 3.15 05/18/27 Corp Settings ▾ Yield and Spread Analysis

1) Yield & Spread 2) Yields 3) Graphs 4) Pricing 5) Description 6) Custom

✓ No Notes 95) Buy 96) Sell

FAMCA 3.15 05/18/27 (31422XYP1)

Spread	214.10 bp	vs	5y T 2 5a 05/31/27
Price	91.360805	🕒	98-07+ 10:47:03
Yield	5.150 Wst		3.009 S/A
Wkout	05/18/2027 @ 100.00	Consensus	Yld 3 3
Settle	06/07/22		06/07/22

Risk

M.Dur	Dur	4.478	4.492
Risk		4.098	4.111
Convexity		0.232	0.233
DV	01 on 1MM	410	411
Benchmark Risk		4.547	4.564
Risk Hedge		901M	901M
Proceeds Hedge		931M	

Workout OAS

Spreads Yield Calculations

11) G-Sprd	214.1	Street Convention	5.150
12) I-Sprd	238.2	Equiv 1 /Yr	5.216
Basis	N.A. Mmkt (Act/360)		
14) Z-Sprd	234.8	True Yield	5.150
15) ASW	221.7	Current Yield	3.448
16) OAS	214.3		

Invoice

Face	1,000 M
Principal	913,608.05
Accrued (19 Days)	1,662.50
Total (USD)	915,270.55

After Tax (Inc 40.800 % CG 23.800 %) 3.391

Issue Price = 100.000. Bond Purchased with Pre...

Australia 61 2 9777 8600 Brazil 5511 2395 9000 Europe 44 20 7330 7500 Germany 49 69 9204 1210 Hong Kong 852 2977 6000
Japan 81 3 4565 8900 Singapore 65 6212 1000 U.S. 1 212 318 2000 Copyright 2022 Bloomberg Finance L.P.
SN 1344660 EDT GMT-4:00 H604-1891-165 06-Jun-2022 10:47:06

Source: Bloomberg

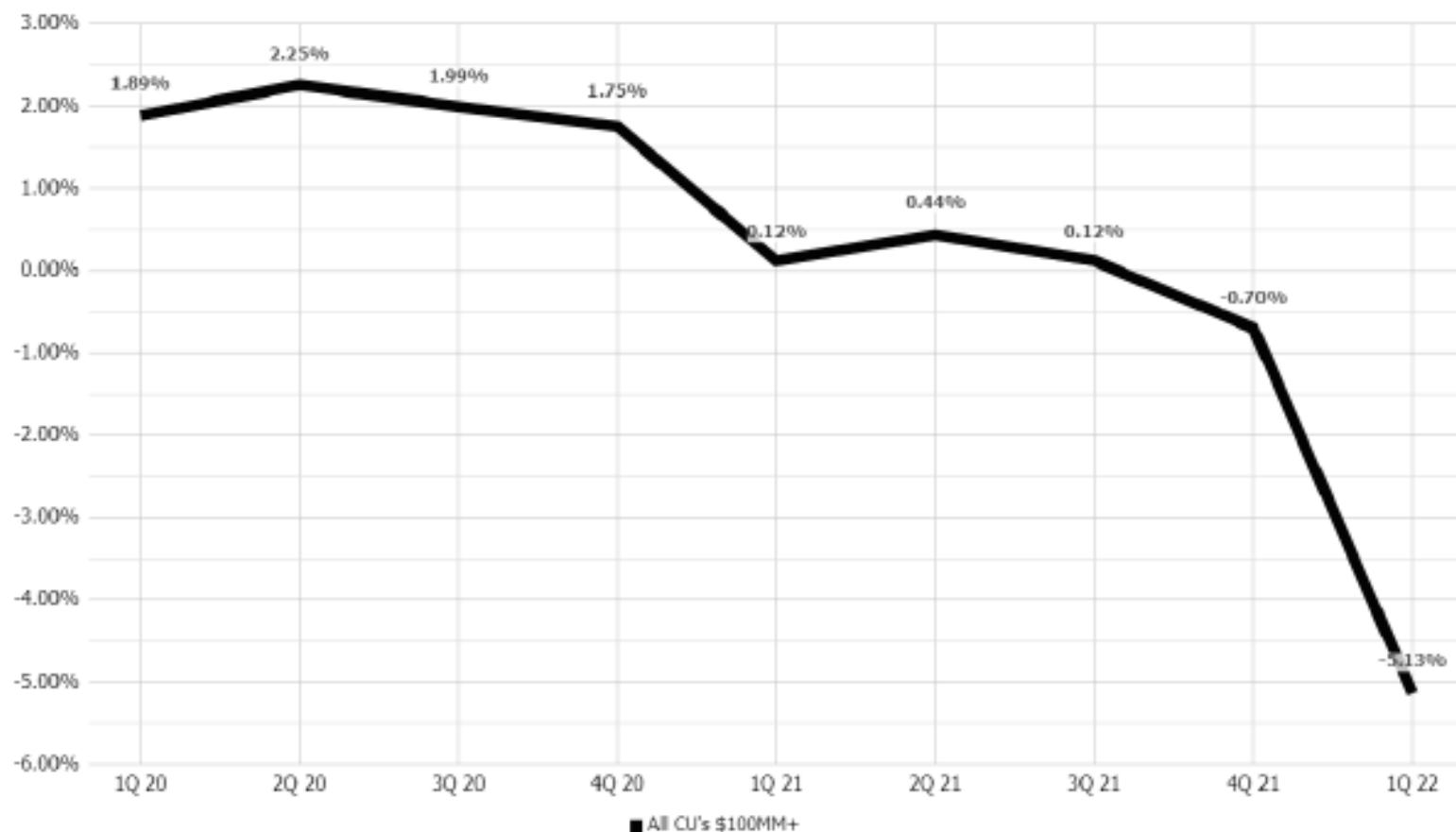
Example of the Impact of Coupon on Price

US Treasury Bonds | 15YR+

United States				1) Actions		3) Settings		Fixed Income Trading					
15:59	Outright	Switch	Bfly	4) Actives	5) Bills	6) Notes	7) TIPS	8) Strips	9) Sprds	10) Curves	11) FRN	12) Bfly	13) WI
21) T/0-1	22) T/1-2	23) T/2-4	24) T/4-7	25) T/7-10	26) T/10-30								
31) 4 $\frac{1}{2}$ 236	118-19 / 118-27+	2.835	+ 27	▲ 66) 3 $\frac{1}{8}$ 844	97-08+ / 97-17+			3.281	+1-13				
32) 4 $\frac{3}{4}$ 237	121-21 / 121-29	2.913	+ 31+	67) 3 N44	95-04+ / 95-13+	■■■	3.289	+1-13					
33) 5 537	124-19+ / 124-26	2.943	+ 31+	68) 2 $\frac{1}{2}$ 245	87-04+ / 87-14	■■■	3.288	+1-11+					
34) 4 $\frac{3}{8}$ 238	117-10+ / 117-17+	2.972	+ 31+	69) 3 545	95-09+ / 95-18	■■■	3.276	+1-15					
35) 4 $\frac{1}{2}$ 538	118-28+ / 119-06+	2.983	+1-00+	70) 2 $\frac{7}{8}$ 845	93-11+ / 93-20+		3.267	+1-14+					
36) 3 $\frac{1}{2}$ 239	105-19 / 105-28+	3.048	+1-00	71) 3 N45	95-18 / 95-26		3.256	+1-16					
37) 4 $\frac{1}{4}$ 539	115-17 / 115-28	3.047	+1-03+	72) 2 $\frac{1}{2}$ 246	87-08+ / 87-15+		3.261	+1-14					
38) 4 $\frac{1}{2}$ 839	118-30+ / 119-10	3.052	+1-04+	73) 2 $\frac{1}{2}$ 546	87-08+ / 87-16	■■■	3.254	+1-15					
39) 4 $\frac{3}{8}$ N39	117-02 / 117-12	3.083	+1-05	74) 2 $\frac{1}{4}$ 846	83-01+ / 83-09		3.251	+1-13+					
40) 4 $\frac{5}{8}$ 240	120-21+ / 121-01	3.079	+1-07	75) 2 $\frac{7}{8}$ N46	93-23+ / 93-30+		3.234	+1-17					
41) 4 $\frac{3}{8}$ 540	117-00 / 117-11	3.110	+1-08	76) 3 247	95-28+ / 96-02+		3.231	+1-19					
42) 1 $\frac{1}{8}$ 540	71-07 / 71-12	3.235	+ 31	77) 3 547	96-00+ / 96-06+	■■■	3.222	+1-20					
43) 3 $\frac{7}{8}$ 840	109-18+ / 109-28	3.159	+1-07+	78) 2 $\frac{3}{4}$ 847	91-31 / 92-04		3.207	+1-18+					
44) 1 $\frac{1}{8}$ 840	70-24 / 70-30	3.247	+ 30+	79) 2 $\frac{3}{4}$ N47	92-02 / 92-08		3.197	+1-19+					
45) 4 $\frac{1}{4}$ N40	114-19+ / 114-31+	3.173	+1-09	80) 3 248	96-26+ / 97-00+	■■■	3.170	+1-21					
46) 1 $\frac{3}{8}$ N40	73-28 / 74-01+	3.252	+1-00+	81) 3 $\frac{1}{8}$ 548	99-10+ / 99-16	■■■	3.153	+1-22+					
47) 1 $\frac{7}{8}$ 241	80-19+ / 80-24+	3.252	+1-02	82) 3 848	96-30 / 97-04		3.162	+1-22+					
48) 4 $\frac{3}{4}$ 241	122-04 / 122-14+	3.155	+1-11	83) 3 $\frac{3}{8}$ N48	104-09 / 104-14+	■■■	3.127	+1-26					
49) 2 $\frac{1}{4}$ 541	85-20 / 85-24	3.262	+1-04	84) 3 249	97-22+ / 97-27+		3.118	+1-23+					
50) 4 $\frac{3}{8}$ 541	116-12 / 116-21	3.199	+1-11	85) 2 $\frac{7}{8}$ 549	95-15+ / 95-20+	■■■	3.115	+1-22					
51) 1 $\frac{3}{4}$ 841	78-07+ / 78-11+	3.273	+1-04+	86) 2 $\frac{1}{4}$ 849	84-05 / 84-10		3.107	+1-19					
52) 3 $\frac{3}{4}$ 841	107-09 / 107-17+	3.221	+1-09	87) 2 $\frac{3}{8}$ N49	86-19 / 86-23+	■■■	3.095	+1-20					
53) 3 $\frac{1}{8}$ N41	98-05 / 98-13	3.236	+1-09	88) 2 250	79-13 / 79-17	■■■	3.105	+1-19					
Australia 61 2 9777 8600 Brazil 5511 2395 9000 Europe 44 20 7330 7500 Germany 49 69 9204 1210 Hong Kong 852 2977 6000													
Japan 81 3 4565 8900 Singapore 65 6212 1000 U.S. 1 212 318 2000 Copyright 2022 Bloomberg Finance L.P.													
SN 1546830 EOT GMT-4:00 H322-5993-173 11-May-2022 15:59:28													

Source: Bloomberg

Gain or Loss on AFS/Total AFS



Source: Callahan & Associates

Bond Market “Deli-Tray” (JUNE 28TH)

US TREASURY		CPN	MTY	YTM			M.DUR	+300 DVAL	
2 YEAR		2.250	4/30/2024	3.086			-1.78	-5.34	
5 YEAR		0.500	4/30/2027	3.294			-4.70	-14.10	
10 YEAR		1.875	2/15/2032	3.216			-8.59	-25.78	
30 YEAR		2.250	2/15/2052	3.336			-20.13	-60.39	
AGCY BULLETS		CPN	MTY	YTM			M.DUR	+300 DVAL	
1.9 YEAR		2.500	5/31/2024	3.126			-1.86	-5.57	
3 YEAR		2.875	6/15/2025	3.217			-2.81	-8.44	
4.9 YEAR		2.625	5/31/2027	3.265			-4.56	-13.69	
9.9 YEAR		2.875	5/15/2032	3.213			-8.48	-25.45	
INSURED BANK CD's		MTY		CALL	YTM		M.DUR	+300 DVAL	
1 YEAR	BEAL BANK - PLANO TX	2.650	7/5/2023	Bullet	2.650		-1.00	-2.99	
2 YEAR	ALLY BANK	3.150	6/28/2024	Bullet	3.150		-1.98	-5.93	
3 YEAR	CAPITAL ONE NA	3.350	6/30/2025	Bullet	3.350		-2.93	-8.79	
5 YEAR	FIRST CAPITAL BK SC	3.500	6/30/2027	9/30/2022	3.500		-4.85	-14.54	
AGCY CALLABLES		CPN	MTY	Call Protection	YTM		M.DUR	+300 DVAL	
2.1 YEAR	2-NC1 1X	3.430	7/19/2024	1.1 YRS	3.430		-1.93	-5.80	
3.1 YEAR	3-NC1 1X	3.650	7/21/2025	1.1 YRS	3.650		-2.84	-8.53	
5.1 YEAR	5-NC3MO BERM	4.500	7/26/2027	0.3 YRS	4.500		-4.44	-13.33	
10 YEAR	10-NC1 CONT	4.740	7/6/2032	1 YRS	4.740		-7.89	-23.67	
MBS		CPN	WAL WAL +300	WAC	BASE	-100	+300	M.DUR	+300 DVAL
15 YEAR	15YR MBS Pool	3.500	5.6 6.3	4.18	3.650	3.670	3.640	-4.76	-14.28
15 YEAR	15YR MBS Pool	4.000	5.3 6.1	4.75	3.740	3.700	3.770	-4.54	-13.63
20 YEAR	20YR MBS Pool	3.500	7.1 8.1	4.05	4.000	4.100	3.950	-5.75	-17.26
20 YEAR	20YR MBS Pool	4.000	6.2 8.1	4.75	3.900	3.915	3.950	-5.14	-15.42

Source: Bloomberg

For Illustrative Purpose Only

NCUA's 2022 Supervisory Priorities

To Federally Insured Credit Unions
Subject Examination Program
Status Active

Interest Rate Risk

Credit unions have experienced high share growth over the last two years. If credit unions invested surplus funds in longer duration assets, this could result in greater sensitivity to market risk, and therefore increased interest rate risk. Conversely, keeping all assets short-term can impact current period earnings. Credit unions should continue to carefully model and manage interest rate risk using a broad range of scenarios that include various prepayment speed and yield curve assumptions.

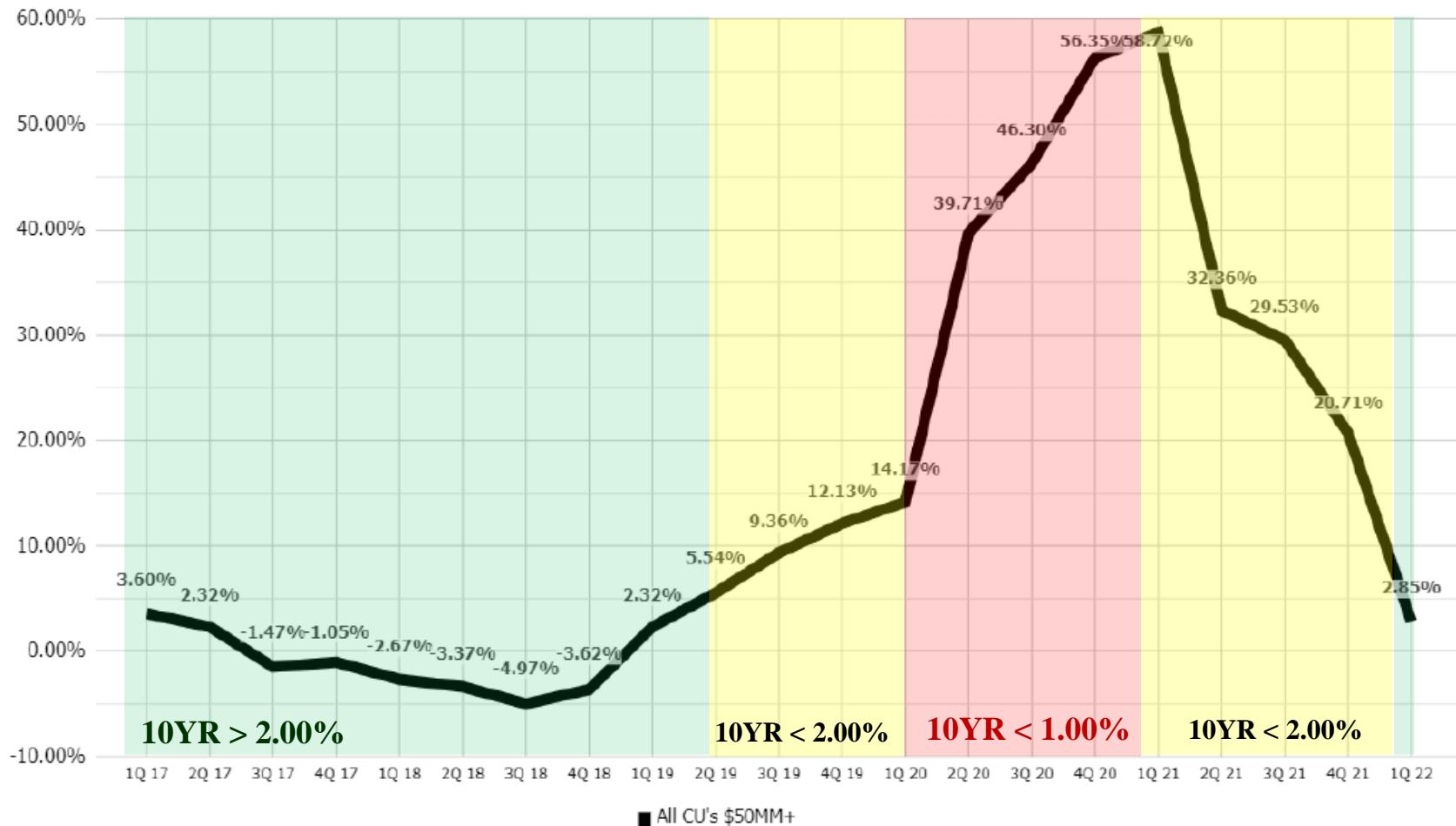
CAMELS Update

In October 2021, the NCUA Board finalized a rule that added the "S" component (for Market Sensitivity) to the existing CAMEL rating system and redefined the "L" component, thus updating the CAMEL rating system to CAMELS. Adoption of CAMELS allows the NCUA, state supervisory authorities, and federally insured credit unions to achieve greater transparency in the ratings and clearly distinguish between liquidity risk in the "L" component and sensitivity to market risk captured in the "S" component. The final rule is effective for examinations starting on or after April 1, 2022.

The evaluation of the "S" component reflects the credit union's exposure to changes in its earnings and capital position arising from changes in market prices and interest rates. Effective risk management programs include comprehensive interest rate risk policies, appropriate and identifiable risk limits, clearly defined risk mitigation strategies, and a suitable governance framework.

In evaluating the "L" component to determine the adequacy of a credit union's liquidity profile, examiners will consider the current and prospective sources of liquidity compared to funding needs. The adequacy of liquidity risk management is also evaluated relative to a credit union's size, complexity, and risk profile.

Investment Growth - All CU's \$50MM+



Source: Callahan & Associates

SECTION III

What can I do now...
**Can the investment portfolio
actually help?**

Yes... The Investment Portfolio Can Help

ASSETS (Interest Income)	LIABILITIES (Interest Expenses - COF)
LOANS: RE LOANS - FIXED-RATE (15YR-30YR) AUTO LOANS FIXED-RATE	SHARES SHARE DRAFTS SHARES MONEY MARKET
RE LOANS FLOATING RATE (HELOC's) CC LOANS Tied to PRIME	SHARES CERTIFICATES
INVESTMENTS: INVESTMENTS FIXED-RATE INVESTMENTS FLOATING-RATE	BORROWINGS FIXED-RATE BORROWINGS FLOATING-RATE

→ **Rate-sensitive Assets... more important than ever during a FED Tightening Cycle**

Why Differentiate Between Floating Rate & Adjustable-Rate Assets?

Floating Rate Bonds/ Loans:

- **Frequent resetting** coupon rate under 1-year (preferably 1-3 months)
- Will **react** positively/ **quickly** to rising rates and benefit your CU from an income and earnings perspective.
- Frequent (1-3 months) reset = **ALM** (low IRR risk) **friendly**

Adjustable Rate Bonds/ Loans

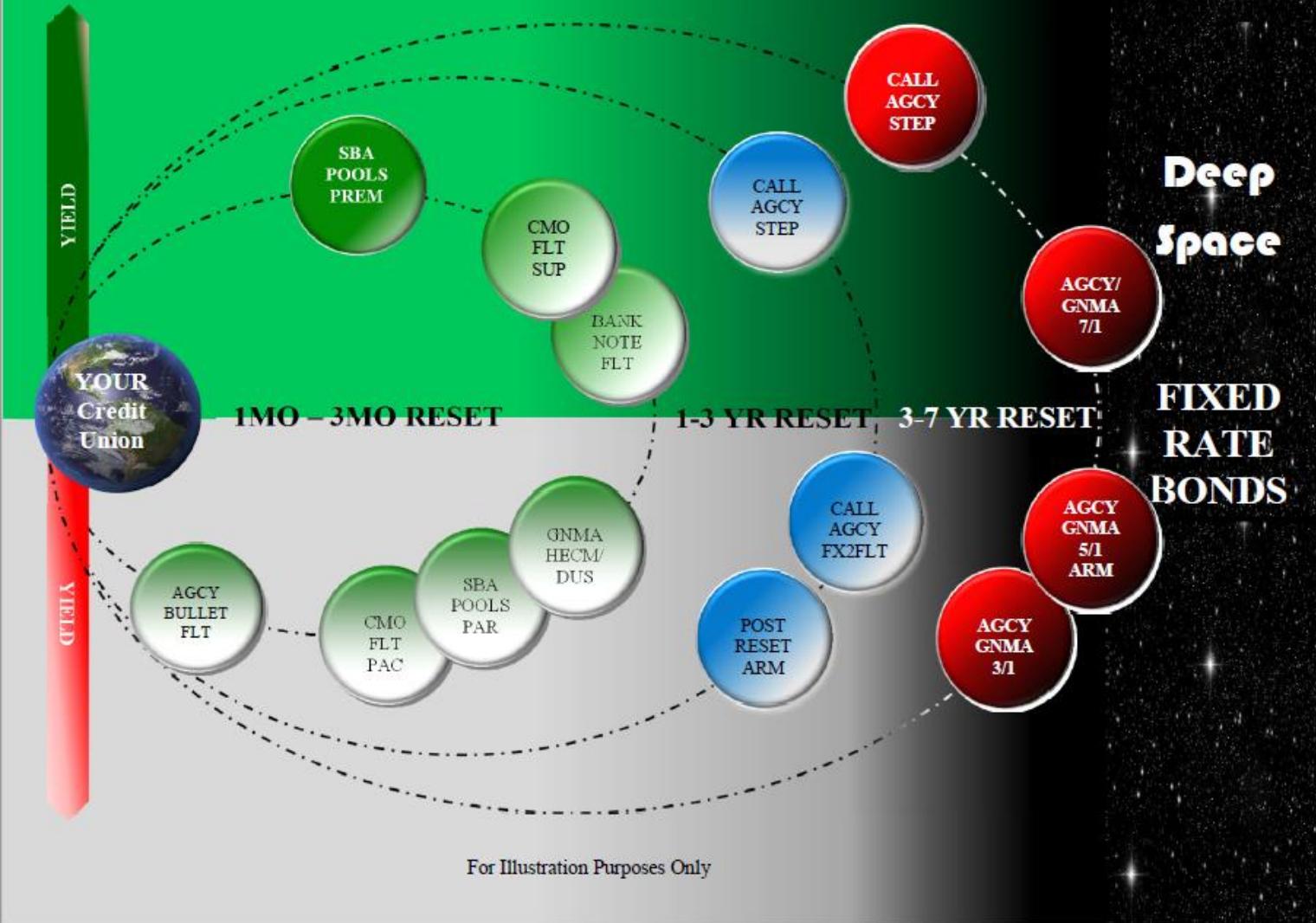
- Infrequent and/ or Irregular Resetting Coupon Rate – Typically 3-7 years, but not more often than 1x per year
- Will **NOT** react quickly to Rising Rates

SECTION IV

Practical Application of a Floating Rate Investment Strategy

Floating Rate SBA Pools

The Credit Union Universe of Floating Rate Securities



Bond Market “Deli-Tray” (JUNE 28TH)

AGCY BULLET FLOATER		CPN			BASE		-100	+300	CAP	FREQ	M.DUR	+300 DVAL
AGCY	FFCB	1.550	BULLET	6/26/2024	1.500		0.430	4.900	N	3M	-0.003	-0.01
SBA FLTR		CPN	WAL 2 8 V		WAC	2CPR	10CPR	-100	+300	CAP	FREQ	OAS DUR +300 DVAL
10 YEAR	10-YR SBA Floater	4.375	5.4 4.4 4.3		4.38	3.050	2.430	2.120	5.800	NO	3M	-0.39 -0.93
SBA FLTR		CPN	WAL 0 7 V		WAC	0CPR	8CPR	-100	+300	CAP	FREQ	OAS DUR +300 DVAL
25 YEAR	25-YR SBA Floater	3.825	15 8.7 6.8		3.83	3.700	2.800	2.780	6.510	NO	3M	-0.88 -2.64
CMO FLOATER		CPN	WAL WAL +300		WAC	BASE	-100	+300	CAP	FREQ	OAS DUR +300 DVAL	
EXCH,FLT,AD,PAC	Agncy CMO FLT	1.376	4 5.4		5.18	1.400	0.400	4.400	Y	1M	-0.30	-0.90
HECM FLOATER		CPN	WAL WAL +300		WAC	BASE	-100	+300	CAP	FREQ	OAS DUR +300 DVAL	
FLT,HZ,W,PT	Agncy CMO FLT	1.271	NA		3.32	1.425	0.420	4.260	Y	18.000	-0.30	-0.90
AGCY CALLABLES-STEP UP		CPN	MTY	To Next STEP	YTC		STEP CPN	YTM	CAP	FREQ	M.DUR	+300 DVAL
5 YEAR	5-NC1.5 1X	2.850	6/29/2027	1.5 YRS	2.850		4.250	3.802	Y	1.6YR	-4.55	-13.65
AGCY ARM - SEASONED		CPN	WAL WAL +300		WAC	BASE	Nxt Reset	-100	+300	CAP	FREQ	OAS DUR +300 DVAL
5/2/5	MBS ARM	2.062	NA	2.80	3.500	10M	2.850	4.950	Y	12M	-1.15	-3.45

Source: Bloomberg

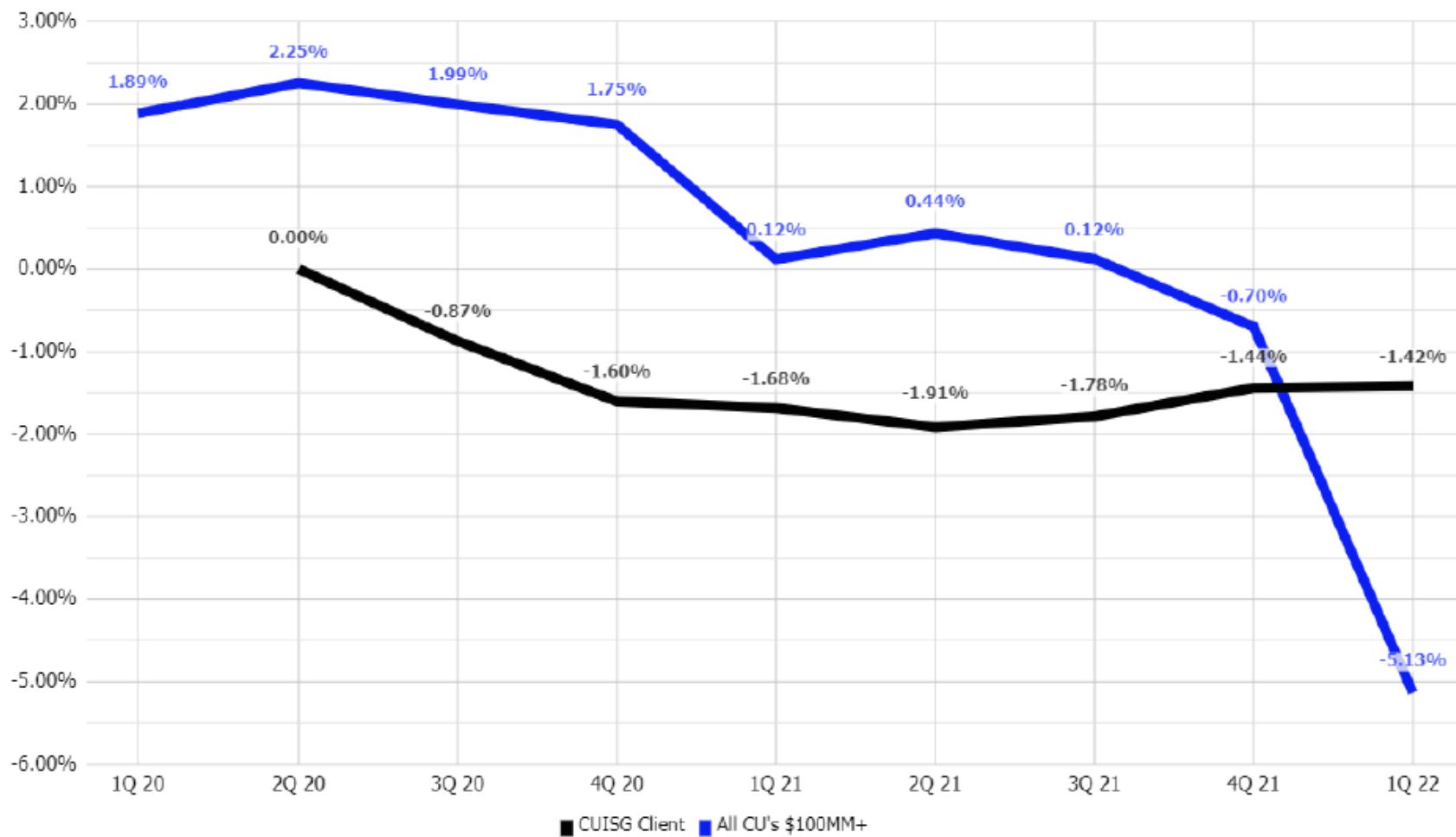
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Single Best Risk/ Reward/ Quick Implementation Idea for 2022

Potential Benefits of Floating Rate SBA's in a Rising Rate Environment

Characteristics	Benefits
<ul style="list-style-type: none">• Coupon Resets Quarterly	<ul style="list-style-type: none">• 4 Opportunities for the Floating Rate coupon to reset upward in 2022 and beyond = increased income• Great ALM performer• Classified in the “0-1YR” maturity bucket for 5300 purposes• Typically < 3% +300 BP DVAL (0.75 -0.90 duration)
<ul style="list-style-type: none">• Tied to Prime	<ul style="list-style-type: none">• The PRIME rate moves in a one to one correlation with Fed Funds
<ul style="list-style-type: none">• 100% Full Faith and Credit of the US Government	<ul style="list-style-type: none">• Considered a 0% Risk-Based Asset for RBS calculation (JAN. 2022)• Not subject to credit risk (losses/ ALLL) like member loans
<ul style="list-style-type: none">• Frequent Coupon Resets plus the Coupon is Uncapped	<ul style="list-style-type: none">• Low IRR... No matter how what happens with rates

Gain or Loss on AFS/Total AFS



Source: Callahan & Associates

PRIME Rate Vs. FED Funds Target Rate



Source: Bloomberg

PRIME Rate Vs. 10YR UST Yield



Source: Bloomberg

Looking into the “Crystal Ball” ...10 Years Ago



Source: Bloomberg

Potential Benefits of Floating Rate SBA's in a Rising Rate Environment – *Sample SBA Floating Rate Pool*

Source: Bloomberg

OPPENHEIMER

The Potential Impact of Rising Rates on Coupon Income

25,000,000

Assumes the current SBA portfolio balance is maintained

Current PRIME rate = 4.75%

2022		Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
25BP HIKE 3/16	0.25%	0	0	0	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208
25BP HIKE 5/4	0.25%	0	0	0	0	0	0	5,208	5,208	5,208	5,208	5,208	5,208
25BP HIKE 5/4	0.25%	0	0	0	0	0	0	5,208	5,208	5,208	5,208	5,208	5,208
25BP HIKE 6/15	0.25%	0	0	0	0	0	0	5,208	5,208	5,208	5,208	5,208	5,208
25BP HIKE 6/15	0.25%	0	0	0	0	0	0	5,208	5,208	5,208	5,208	5,208	5,208
25BP HIKE 6/15	0.25%	0	0	0	0	0	0	5,208	5,208	5,208	5,208	5,208	5,208
25BP HIKE 1	0.25%	0	0	0	0	0	0	0	0	0	5,208	5,208	5,208
25BP HIKE 2	0.25%	0	0	0	0	0	0	0	0	0	5,208	5,208	5,208
25BP HIKE 3	0.25%	0	0	0	0	0	0	0	0	0	5,208	5,208	5,208
25BP HIKE 4	0.25%	0	0	0	0	0	0	0	0	0	5,208	5,208	5,208
25BP HIKE 5	0.25%	0	0	0	0	0	0	0	0	0	5,208	5,208	5,208
		0	0	0	5,208	5,208	5,208	31,250	31,250	31,250	57,292	57,292	57,292
Total Potential Incremental Coupon Income for 2022													281,250

2023		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
25BP HIKE 3/16	0.25%	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208
25BP HIKE 5/4	0.25%	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208
25BP HIKE 5/4	0.25%	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208
25BP HIKE 6/15	0.25%	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208
25BP HIKE 6/15	0.25%	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208
25BP HIKE 6/15	0.25%	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208
25BP HIKE 1	0.25%	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208
25BP HIKE 2	0.25%	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208
25BP HIKE 3	0.25%	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208
25BP HIKE 4	0.25%	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208
25BP HIKE 5	0.25%	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208
25BP HIKE 6	0.25%	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208
25BP HIKE 7	0.25%	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208	5,208
25BP HIKE 8	0.25%	0	0	0	5,208	5,208	5,208	5,208	5,208	0	0	0	0
		67,708	67,708	67,708	72,917	72,917	72,917	72,917	72,917	67,708	67,708	67,708	67,708
Total Potential Incremental Coupon Income for 2023													838,542

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Actual interest accrual can be impacted by changes in the PAR balance caused by transactions and/or principal paydowns. The potential timing of those hikes would result in coupon resets on the first day of JUL 22, OCT 22 & JAN 23.



Potential Benefits of Floating Rate SBA's in a Rising Rate Environment

Compared to other Potential Investment Alternatives

RATE SCENARIO	SBA Floater	Projected Returns: Floating Rate SBA Pools Vs. Fixed-Rate Alternatives										CMO Floater	
		3YR AGCY Bullet		5YR AGCY Bullet		5YR Bank CD		5-NC1 AGCY Call		15YR AGCY MBS			
		0 CPR	YTM	Vs. SBA	YTM	Vs. SBA	YTM	Vs. SBA	YTM	Vs. SBA	YTM	Vs. SBA	YTM
CURRENT	3.70%	3.20%	0.50%	3.28%	0.43%	3.50%	0.20%	4.40%	-0.70%	3.80%	-0.10%	1.40%	2.30%
+50 BPS	4.18%	3.20%	0.98%	3.28%	0.91%	3.50%	0.68%	4.40%	-0.22%	3.80%	0.38%	1.89%	2.29%
+100 BPS	4.65%	3.20%	1.45%	3.28%	1.38%	3.50%	1.15%	4.40%	0.25%	3.80%	0.85%	2.38%	2.27%
+125 BPS	4.88%	3.20%	1.68%	3.28%	1.61%	3.50%	1.38%	4.40%	0.48%	3.80%	1.08%	2.63%	2.25%
+150BPS	5.11%	3.20%	1.91%	3.28%	1.84%	3.50%	1.61%	4.40%	0.71%	3.80%	1.31%	2.88%	2.23%
+200BPS	5.58%	3.20%	2.38%	3.28%	2.31%	3.50%	2.08%	4.40%	1.18%	3.80%	1.78%	3.37%	2.21%
+400BPS	7.45%	3.20%	4.25%	3.28%	4.17%	3.50%	3.95%	4.40%	3.05%	3.80%	3.65%	5.36%	2.09%

SBA YTM based on the Bloomberg IPY CPR scenario

Potential Benefits of Floating Rate SBA's in a Rising Rate Environment

Compared to other Potential Investment Alternatives

RATE SCENARIO	SBA Floater	Projected Returns: Floating Rate SBA Pools Vs. Fixed-Rate Alternatives										CMO Floater	
		3YR AGCY Bullet		5YR AGCY Bullet		5YR Bank CD		5-NC1 AGCY Call		15YR AGCY MBS			
		0 CPR	YTM	Vs. SBA	YTM	Vs. SBA	YTM	Vs. SBA	YTM	Vs. SBA	YTM	Vs. SBA	YTM
CURRENT	3.18%	3.20%	-0.02%	3.28%	-0.09%	3.50%	-0.32%	4.40%	-1.22%	3.80%	-0.62%	1.40%	1.78%
+50 BPS	3.64%	3.20%	0.44%	3.28%	0.37%	3.50%	0.14%	4.40%	-0.76%	3.80%	-0.16%	1.89%	1.75%
+100 BPS	4.10%	3.20%	0.90%	3.28%	0.83%	3.50%	0.60%	4.40%	-0.30%	3.80%	0.30%	2.38%	1.72%
+125 BPS	4.33%	3.20%	1.13%	3.28%	1.06%	3.50%	0.83%	4.40%	-0.07%	3.80%	0.53%	2.63%	1.70%
+150BPS	4.56%	3.20%	1.36%	3.28%	1.29%	3.50%	1.06%	4.40%	0.16%	3.80%	0.76%	2.88%	1.68%
+200BPS	5.02%	3.20%	1.82%	3.28%	1.75%	3.50%	1.52%	4.40%	0.62%	3.80%	1.22%	3.37%	1.65%
+400BPS	6.85%	3.20%	3.65%	3.28%	3.58%	3.50%	3.35%	4.40%	2.45%	3.80%	3.05%	5.36%	1.49%

SBA YTM based on the Bloomberg IPY CPR scenario

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