Banking Industry Breakout

November 8, 2019 | BNN Accounting Update



WELCOME



 Jeff Skaggs & Nathalia Bergamini Taxation of Financial Institutions: The Past, the Present, & the Future

Roger Poulin

Afternoon break Cannabis Legalization in MA

• Steven Hoffman Balance Sheet Strategies

• Frank Farone

BAKER NEWMAN NOYES

Accounting & the Banking Industry: What's new in 2019 and Beyond?

Jeff Skaggs & Nathalia Bergamini November 8, 2019



Banking Industry Breakout | BNN Accounting & Audit Update

What you'll hear today



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HOT TOPICS

Jeff Skaggs

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Regulatory

• FDIC – Risk focused and innovating?

oFIL-47-2019

o Op-Ed by FDIC chair Jelena McWilliams

"I am on a mission to change how the Federal Deposit Insurance Corporation views innovation, and I need some help."

Upcoming regulatory focus

Economic downturn on horizon

• Focus on:

- Liquidity
- Asset quality
 - Policy exceptions
- LIBOR phase out

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Technology

• 2019 Tech Trends – How are banks spending?

- "The desire to streamline customers' experience and improve efficiency is driving bank technology strategies across the industry, as most executives and directors believe their offerings are 'adequate,' according to Bank Director's 2019 Technology Survey, sponsored by CDW."
- "68% say they're investing in automation in fiscal year 2019, and 67% are investing money to enhance the bank's digital channels.
- "Despite the rise of the digital channel, 51% of respondents say the branch is equally important to online and mobile channels when it comes to growing the bank. More than half indicate they're upgrading branch and ATM technology."

*All quotes taken from Bank Director 2019 Technology Survey Report (October 2, 2019)

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Technology (cont.)

Key Findings:

Loyal to the core	But banks aren't satisfied	Rising budgets	Where the money's going	More expertise needed
 >50% of respondents say their core contract expires within the next five years. 60% say they're unlikely to switch to a new provider. 	• 21% are completely satisfied with their core provider.	 45% say their technology budget has risen between 5% to 10% for FY2019. Almost 25% report a budget increase of more than 15%. Median reported budget was \$750,000 for FY2019. 	 50% are hiring consultants to supplement inhouse expertise. 43% are bringing on additional employees to focus on technology and innovation. 	 53% say technology is on the agenda at every board meeting – up 3 points from last year's survey. 80% say the board needs to enhance its technology expertise. 43% say they have a technology expert on the board.

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*Key findings from Bank Director 2019 Technology Survey Report (October 2, 2019)

Technology (cont.)

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NOYES

• State of social media - ABA 2019 study:

https://bankingjournal.aba.com/2019/08/the-2019-state-of-socialmedia-in-banking/

How are banks using social media?



Technology (cont.)

Could banks do a better job with social media?

"Most bankers in our survey were relatively unconfident about their bank's social media prowess."

Regulatory issues







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NOYES

Audit Committee/Governance

Newest exposure facing community bank boards?

CYBERCRIMES

https://www.bankdirector.com/issues/risk/newest-exposure-facingcommunity-bank-boards/

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Audit Committee/Governance (cont.)

AICPA CECL Practice Aid

<u>https://www.aicpa.org/content/dam/aicpa/interestareas/frc/accountin</u> <u>gfinancialreporting/downloadabledocuments/cecl-audit-practice-</u> <u>aid.pdf</u>



NEW ACCOUNTING PRONOUNCEMENTS

Nathalia Bergamini

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Topic 606 – Revenue from Contracts *with Customers*

• Effective Dates:

Public companies: fiscal years beginning after December 15, 2017
 Non-public companies: fiscal years beginning after December 15, 2018

Financial reporting implications: Minimal impact to financial institutions

Revenue					
Out of Scope	In Scope				
 Interest income Premium and discount amortization Loan prepayment fees Loan origination fees Loan late fees Loan commitment fees 	 Sale of OREO Deposit related fees Overdrafts, wire transfer, ATM, monthly service fee Asset management income Trust income 				

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Topic 606 – Revenue from Contracts with Customers (cont.)

• What should you be doing now?

- o Identify significant revenue streams that are in scope
- Review standard contracts in accordance with the standard's five step process
- Contact external advisors as needed

Other Implications

- Could impact borrowers' financial statements
 - Timing of revenue recognition
 - May result in lost revenues upon adoption
 - Expected to normalize over the next years
- o Impact on loan covenants
 - DSCR & EBITDA

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Topic 606 – *Revenue from Contracts with Customers* (cont.)

Facts

- \$3,000,000 in total contracts
 - \$750,000: software sale
 - \$2,250,000 three-year support contract
- Total expenses before interest, depreciation and amortization:
 - Yr 1 \$1,200,000
 - Yr 2 \$900,000
 - Yr 3 \$850,000
- Annual debt service
 - \$75,000

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NOYES

Topic 605

- Recognize revenue in three equal annual installments
- Yr 1 \$1,000,000
- Yr 2 \$1,000,000
- Yr 3 \$1,000,000
- DSCR
- Yr 1 (2.67X)
- Yr 2 1.33X
- Yr 3 2.00X
- EBITDA
- Yr 1 (\$200,000)
- Yr 2 \$100,000
- Yr 3 \$150,000

Topic 606

- Recognize software sale immediately and support contract over the life of the contract
- Yr 1 \$1,500,000
- Yr 2 \$750,000
- Yr 3 \$750,000
- DSCR
- Yr 1 4.00X
- Yr 2 (2.00X)
- Yr 3 (1.33X)
- EBITDA
- Yr 1 \$ 300,000
- Yr 2 (\$150,000)
- Yr 3 (\$100,000)

Topic 842 - Leases

- Effective Dates:
 - o Public companies: fiscal years beginning after December 15, 2018
 - o Non-public companies: fiscal years beginning after December 15, 2020

• Financial reporting implications:

- Requires leases to be recorded on the balance sheet with a lease liability for the obligation and a right-of-use asset
 - Exception: Short-term leases

o Income statement differences for financing leases and operating leases

o Disclosures: Qualitative and quantitative information about leases

• Other Implications

- o Capital Ratios
- o Borrower's loan covenants
 - Current Ratio
 - Leverage Ratio



Topic 842 – Leases (cont.)

Prior to Adoption of A	SC 842	Post Adoption of ASC 842		
 Total Current Assets: Total Current Liabilities: Total Liabilities: Total Equity: ROU Asset: Lease liability: 	\$45,000 \$37,000 \$57,000 \$73,000 \$0 \$0	 Total Current Assets: Total Current Liabilities: Total Liabilities: Total Equity: ROU Asset: Lease liability: 	<pre>\$ 45,000 \$ 48,000 \$112,000 \$ 73,000 \$ 54,500 \$ 55,000</pre>	
		 Current Ratio: Leverage Ratio: Out of Compli 	0.94 1.53 ance	

ASU 2016-01 - Recognition and Measurement of Financial Assets and Financial Liabilities

• Effective Dates:

Public companies: fiscal years beginning after December 15, 2017
 Non-public companies: fiscal years beginning after December 15, 2018

 Requires equity investments to be measured at fair value with changes in fair value recognized in net income

 Exception: Investments accounted for under the equity method of accounting, or those that result in consolidation of the investee

Investments in limited partnerships

o After ASU 2016-01: cost method may be used

- Determine if equity method is required
- Evaluate if investment does not qualify for the proportional amortization method

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NOYES

CECL SURVEY RESULTS

Nathalia Bergamini

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BNN CECL Implementation Survey

Preliminary feedback

- Goal: Assess the status and success of CECL implementation in the New England banking industry
- 15 responses to date (survey is still open, ongoing)
- We are analyzing direct feedback from banks and financial institutions on the status of CECL implementation and the challenges they face



Current Expected Credit Loss Standard Implementation A survey for banking professionals

The CECL standard was issued in June 2016 and in response to the impending and ongoing changes, we have a <u>CECL Task Force</u> to address the challenges and questions surrounding the new standard, particularly as it relates to loans and the allowance for loan losses.

Since our first CECL implementation survey in 2018, the BNN CECL Task Force has continuously monitored regulatory news and updates related to CECL. As we move closer towards implementation, we want to hear from bank controllers, CEOs, CFOs, CECL committee members, and anyone involved in CECL implementation at their institution about the challenges and questions they have and where they stand in the CECL implementation process.

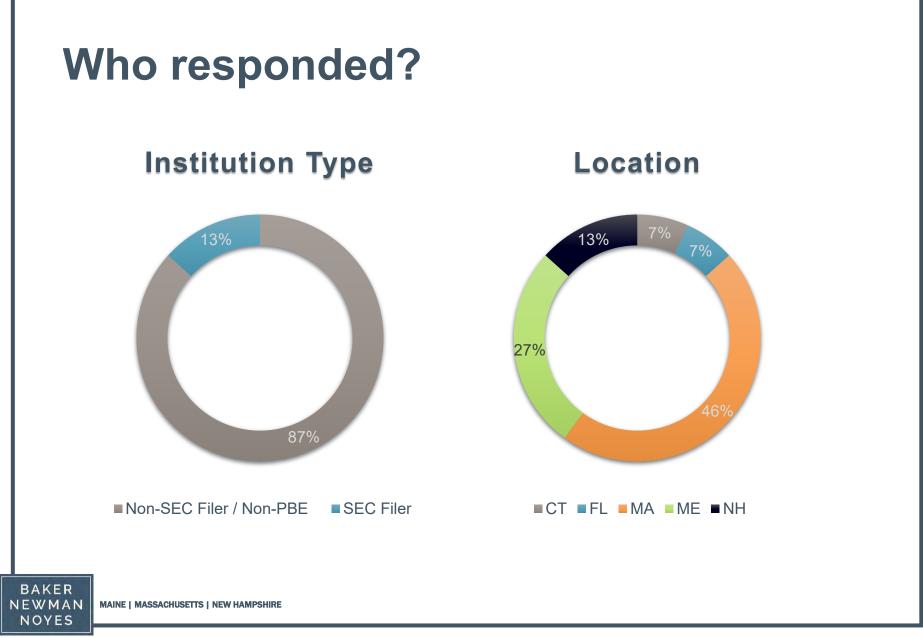
Share your feedback in our short survey.

We thank you for taking the time to share your thoughts and concerns about CECL. Respondents will be the first to receive the analysis of our findings. Individual responses to this survey are private and for BNN use only. We will not share your contact information with any third parties.

Thank you in advance for your participation.

The BNN Banking Team

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What did they say?

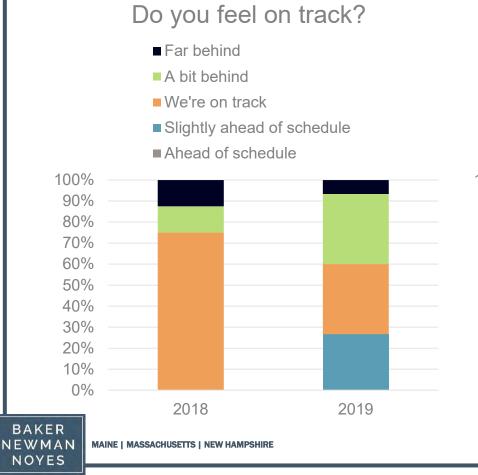
- Almost all respondents expect CECL to cause some or significant increase to the current reserve level or remain consistent with current ALLL model
- Approximately 60% of respondents are making satisfactory progress towards CECL implementation and are also planning to use a third-party vendor as a starting point
- The proposed delay in the effective date for CECL will not change the implementation timeline
 - o 80% will proceed as planned

 $_{\odot}\,20\%$ plans to delay certain stages of CECL

- To allow more time to work on modeling and run parallel and simulations

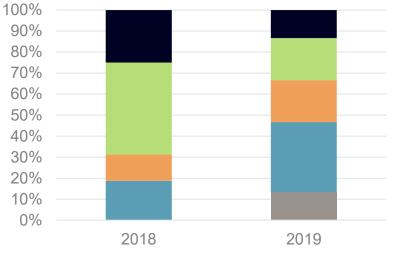
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Implementation Status: Are you on track?



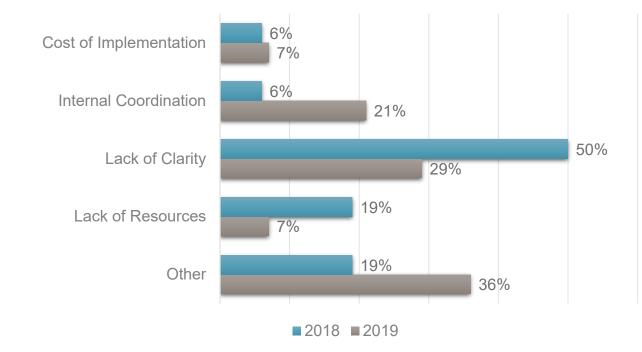
What is your current status?

- Pre-Planning
- Planning & Research
- Scenarios & Modeling
- Data Testing
- Parallel Runs & Validation



What are you struggling with?

Biggest Challenges



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The "other" stuff

- Selecting the right method
- Determining the appropriate pre-payment speeds
- How to supplement data with industry or peer information in an appropriate way
- Coordination with third-party vendor

More to come...

- The survey remains open and we invite our banking clients and friends to continue to share their feedback.
- Our goal is to better understand the current outlook of CECL implementation from the bank perspective, and share those trends with you.
- You can access the survey here: <u>https://www.surveymonkey.com/r/5NTNTJB</u>

Need help now?



Access BNN's CECL Toolkit online!

✓ CECL timeline and checklist for SEC filers AND non-SEC filers
 ✓ Example allowance for loan loss calculator
 ✓ Additional slides from BNN CECL presentations
 ✓ Other CECL articles and alerts

www.bnncpa.com/industries/banking_and_financial_services/current _expected_credit_loss_standard

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We'd love to hear from you.





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Taxation of FinancialInstitutions:The Past, The Present, & The Future

Roger Poulin November 8, 2019



Banking Industry Breakout | BNN Accounting & Audit Update

Here with you today



ROGER POULIN, CPA

Tax Principal rpoulin@bnncpa.com 207.879.2100

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THE PAST (PRE-TCJA)

Tax Landscape Prior to TCJA

- Graduated Corporate tax rates generally 34% or 35%
- Higher rates generally provided higher rate of returns for BOLI/Municipal/Tax Credit investment
- Example:
 - Bank A has \$5,000,000 of taxable income. At 34% this is federal tax of \$1,700,000.
 - Post TCJA \$5,000,000 of taxable income produces \$1,050,000 of tax at 21%.
 - $_{\odot}$ Tax savings of \$650,000.

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THE PRESENT (POST-TCJA)

2A

TCJA Changes Impacting Financial Institutions

- Tax rate a flat 21% for C Corporations
- AMT repealed for C Corp
- More opportunity for accelerated tax depreciation
- Tax credits mostly unmodified
- Parking expenses to be disallowed
- Entertainment 100% disallowed
- Interest expense can be limited under 163j

Meals and entertainment

- Summary of key changes
 - Entertainment expenses are now 0% (formerly 50% in most cases) deductible
 - De minimis fringe benefits in the form of food and beverages are now 50% (formerly 100%) deductible



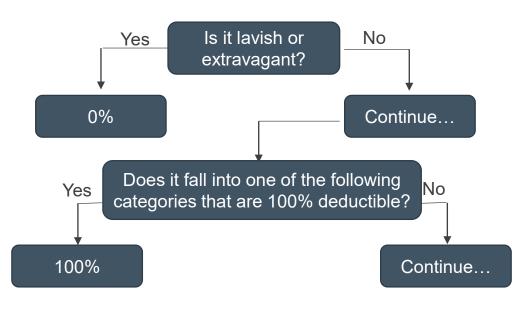
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Determining Deductibility Percentage

Decision tree for determining deductibility percentage for meals and entertainment under §274



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100% Deduction applies to expenses that are:

- Treated as taxable employee compensation;
- Reimbursed by a third party under an accountable plan;
- For recreational, social, or similar activities (other than club dues) primarily for the benefit of non-highly compensated employees, i.e. the April 15 Happy Hour exception
- For goods, services, or facilities made available to the general public;
- Sold in a bona fide transaction for adequate and full consideration;
- Includible in the income of an independent contractor as compensation for services, but only if the amount is properly reported on a Form 1099-MISC if the amount is \$600 or more; or
- Provided to crew members of certain commercial ships or to workers on certain offshore oil or gas platforms (see Code Section 274(n)(2)(C).)

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Entertainment, Amusement, or Recreation

- Is the activity "of a type generally considered to constitute entertainment, amusement, or recreation"
- If yes, does it fall into one of these categories?

50% deductible

Expenses which are directly related to business meetings of the taxpayer's employees, stockholders, agents, or directors

Expenses directly related and necessary to attend a meeting or convention of an organization which is taxexempt under Code §501(c)(6). Examples of such organizations are business leagues, chambers of commerce, real estate boards, and boards of trade.

Yes

Yes

50% deductible

If the answer is "no", it's 0% deductible.

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Qualified Transportation Fringe Benefits

- TCJA changed the taxation of an employer's cost of providing employee parking and transportation costs
- IRS Notice 2018-99 issued to provide examples and guidance on disallowed parking expenses
- Primary use test is key factor in determining disallowed expenses. Looking for locations where employees use 50% or greater of the available spots on a typical business day.
- RESERVED PARKING OFFICE EMPLOYEES ONLY
- In general it has been our experience that only headquarters or main offices tend to have employees take up 50% or more parking spaces available

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Qualified Transportation Fringe Benefits (cont.)

- Expenses to be disallowed if primary use is employee parking. Type of costs include, but are not limited to: repairs, maintenance, plowing, utilities, insurance, taxes, rent, interest, trash removal, cleaning, landscape costs, and security. It does not include depreciation.
- Lot aggregation (or disaggregation is allowed) within the same city:
 If bank had a headquarter and two other locations in the same city they could aggregate all 3 locations into one lot and see if the primary use changes
 - It could be beneficial to disaggregate the lots if for example the primary use is employee parking when aggregated but when you disaggregate you can remove certain costs from the calculation such as security at one lot.

Example 1

- Company X owns a parking lot on its business campus. Parking expenses total \$100,000. The lot has 100 spaces, which are used as follows:
 - o60 are not reserved but are typically used by employees
 - o40 are typically either empty or used by customers and visitors

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Example 1 (cont.)

- As 60 out of 100 spots are typically used by employees the primary use is employee parking.
- 60% of the costs of the lot are not allowed as deductions and therefore are permanent book to tax differences,

60/100 * \$100,000 = \$60,000 disallowed

- If we were to change facts such that:
 - Lot A has 100 spots, 60 used by employees and 40 used by others and no reserved spots
 - Lot B, in the same city as Lot A, has 100 spots, 30 used by employees and 70 others and no reserved spots
 - We would aggregate Lot A and Lot B so that of the total 200 spots only 90 are used by employees and as such the primary use of the combined lot is general public parking and all expenses are allowed to be deducted.

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163(j) Interest Disallowance

- In general interest expense of a bank is not limited as interest income is greater than interest expense
- Limitations can come from partnership investments as limitations are calculated at the entity level
- If disallowed at the entity level the deduction is disallowed for the investor member
- May convert ordinary deductions throughout the investment period to a capital loss upon sale
- The partnership investments and the general partner can elect out by electing to depreciate using ADS life. That creates an analysis to factor in the extended depreciation life versus disallowed interest expense.

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Moving Expenses

- Repeal of exclusion for qualified moving expense reimbursements
- Must be included on W-2
- Some employers are doing a gross-up, i.e. making an additional payment to the employee to cover the taxes on the reimbursement



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Depreciation Changes – Section 179

- Section 179 is an annual election allowing taxpayers an immediate write off of certain fixed assets after applying several limitations.
 - Income Limitation. Must have taxable income to take Section 179.
 - Dollar Cost Limitation. Maximum Deduction \$1,000,000 (total). Investment Limitation. Overall purchases limited to \$2,500,000. Any excess amount over the threshold is a dollar for dollar reduction in the expense. Example: CPA Inc. purchased \$2.75 million of equipment in 2018. Their Section 179 expense would be limited to \$750,000 (\$1,000,000 (\$2,750,000 \$2,500,000)).

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Depreciation Changes – Section 179 (cont.)

- Section 179 can be taken on:
 - o "New" or used assets
 - Includes any 179 expense on Section 1245 personal property including computer software
 - Includes any 179 expense on the following improvements to nonresidential real property:
 - Roofs
 - HVAC property
 - Fire protection and alarm systems
 - Security Systems

Taxpayer may elect for the qualified real property to be eligible for Section 179

 Many states decouple from federal Section 179. See State Tax Considerations.

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Depreciation Changes - Bonus Depreciation

Under the *Tax Cuts and Jobs Act*, Sec. 168(k) provides a depreciation deduction equal to 100% of the adjusted basis of qualifying property in the first year it is acquired and placed in service <u>after September 27, 2017</u>.

The percentage phases down:

80 percent for property placed in service after 12/31/2022, and before 1/1/2024;
60 percent for property placed in service after 12/31/2023, and before 1/1/2025;
40 percent for property placed in service after 12/31/2024, and before 1/1/2026;
20 percent for property placed in service after 12/31/2025, and before 1/1/2027;
0 percent (bonus expires) for property placed in service after 12/31/2025, after 12/31/2026

Property can be **<u>NEW or USED</u>**

No income or investment limitations apply.

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Qualified improvement property (QIP)

- Any improvement to an interior portion of a building which is nonresidential real property if such improvement is placed in service after the date the building was first placed in service.
- Certain improvements not included. Such term shall not include any improvement for which the expenditure is attributable to—

othe enlargement of the building,

oany elevator or escalator,

othe internal structural framework of the building.

Qualified improvement property (QIP) (cont.)

- Qualified Leasehold Improvement Property, Qualified Retail Improvement Property, and Qualified Restaurant Property repealed after December 31, 2017
- For tax years 1/1/18 onward 39* Year Recovery Period using Straight-line (MSL). Eligible for Section 179 <u>NOT</u> Bonus Depreciation.

* Legislative committee reports indicate QIP will be 15-year property and bonus eligible. However, tax regulations were not updated. Technical corrections to the regulations are expected.

Tax Credit Changes

- Research and development tax credit retained
- Low-income housing tax credit retained
- Energy credit retained
- New markets tax credit retained
- 20% historic rehabilitation tax credit retained

 But must be claimed ratably over a 5-year period
 10% rehabilitation tax credit formerly available for non-historic structures was repealed
- New credit available for certain compensation paid in 2018 and 2019 to employees on medical or family leave

Section 451(b) – Year of Inclusion

• Old Law:

 In general income is included in taxable income in the year in which the all events test is met.

• New law:

 All events test is not met any later than the year in which income is included in an applicable financial statement

This does not apply for OID or mortgage servicing

o Effective for tax years beginning after 12/31/18

 Any change would be a section 481(a) adjustment over 6 years starting with 2019

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Other considerations

- Consider Net Operating Loss Carryovers 80% Limit
- Capital Gain Deferral Opportunity Zones
- Like-kind exchanges now only for real property

State and Local Tax (SALT)

- Nexus can be created through lending and other activities
 - Economic nexus vs. Physical nexus
 - Physical location of employee (including remote employees)
 - o Location of collateral often can trigger a filing requirement
 - Wayfair may prompt more states to consider economic nexus provisions

Some states have bright-line nexus triggers for banks:

- NY: \$1,000,000 in receipts
- CT: \$500,000 in receipts
- MA: 100 or more customers, \$10,000,000 in MA assets, \$500,000 receipts
- NC: \$5,000,000 or more in loans

THE FUTURE...



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Future Considerations

- 2020 election has potential to have major impact on tax rates and TCJA provisions
- Many candidates, and even the current administration, have discussed potential for corporate tax rate to increase
- Tax rates going up would be the reverse of what occurred after the rate went down:
 - Would try to accelerate income and defer deductions
 - Would change pricing and value of BOLI, municipal investments, and other tax exempt vehicles
 - Banks with DTAs would record tax benefits due to the deferred tax asset revaluation

We'd love to hear from you.



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Cannabis Legalization in Massachusetts An Overview and Update

November 8, 2019 | Steven Hoffman

Chairman, Cannabis Control Commission



Timeline

COMMONWEALTH OF MASSA	
November 6, 2012	Massachusetts Voters Legalize Medical Marijuana (63% - 37%)
June 25, 2015	First Medical Marijuana Dispensary Opens
November 8, 2016	Massachusetts Voters Approve Question 4, Legalizing the Adult Use of Marijuana (53% – 47%)
July 19, 2017	Massachusetts Legislature Passes H. 3818 (Chapter 55)
September 1, 2017	Appointment of Cannabis Control Commission (CCC)
March 15, 2018	Promulgation of Final Regulations
April 1, 2018	First Applications for Marijuana Establishment Licenses Accepted
June 20, 2018	First Provisional Licenses Issued
November 20, 2018	First Adult Use Marijuana Establishments Open
December 31, 2018	Medical Marijuana Regulatory Oversight Transitioned from Department of Public Health to CCC
September 24, 2019	Revised Regulations for Medical and Adult Use Marijuana Approved by the CCC



Fundamental Differences Between Medical and Adult Use Regulations

	Medical Marijuana	Adult Use Marijuana
Access	State Issued Medical Marijuana Card	Proof of Age
Minimum Age	18	21
Taxes	Untaxed	Up to 20% State Sales Tax State Excise Tax Optional Municipal Tax
Types of Licenses	Vertically Integrated	Multiple by Type
Local Control	 Zoning Letter of Non-Opposition Medical Operators must be allowed to open adult use 	ZoningHost Community Agreement



Local Control

• Statutory Controls:

- Ban
- Limit under 20%
- Limit to less than # of RMDs

Zoning Controls

- Use districts
- Overlay districts
- Signage
- Agricultural Exemption
- Host Community Agreements





Licensing Process





Application of Intent

- Incorporation
- Capital
- Bond
- Property Interest
- Municipal Information
- Positive Impact on DIA

LICENSING PROCESS



Background Check

- All executives, managers, persons or entities with direct or indirect authority over the management policies, cultivation or security operations

- Fingerprint check
- Nationwide civil & criminal



Management and Operations Profile

- Certificate of Good Standing with SoS and DOR
- Business Plan
- Operating Policies and Procedures
- Training Plan





Approved Adult Use Applications By status (As of October 10, 2019)

Туре	#
Provisionally Approved	12
Provisional License	104
Final License	25
Commence Operations	66
Total	207

Provisionally approved means approved by the Commission but has not submitted license fee payment yet – provisional license has not started

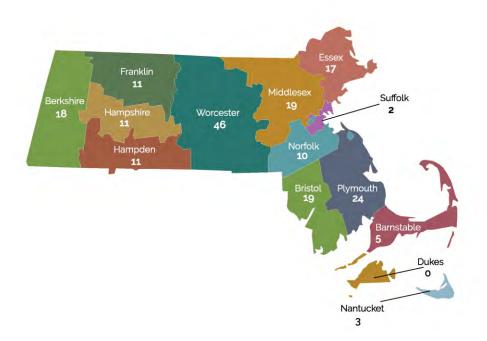


Approved Adult Use Applications By Type (As of October 10, 2019)

Туре	
Craft Marijuana Cooperative	
Independent Testing Laboratory	
Marijuana Cultivator	
Marijuana Microbusiness	
Marijuana Product Manufacturer	
Marijuana Research Facility	
Marijuana Retailer	
Marijuana Transporter with Other Existing ME License	
Marijuana Third Party Transporter	
Total	



Location of Marijuana Establishment Licenses (By County; As of September 12, 2019)





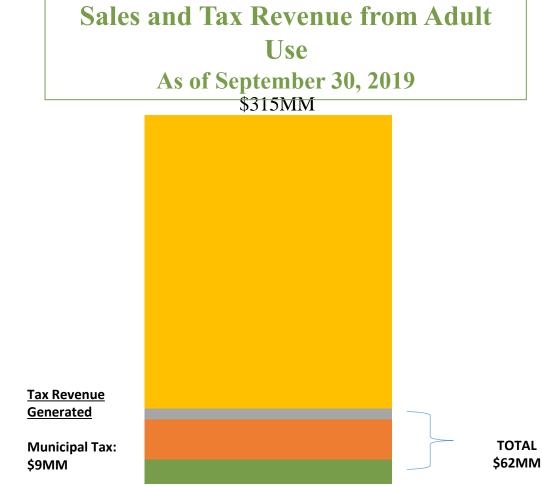
Location of Marijuana Retailer Applications

(By County; As of September 12, 2019)



72







Medical Marijuana Licensing Status As of October 10, 2019

Category	Number
Pending	57
Provisional	95
Final	5
Commence Operations	53



Medical Marijuana Program Status As of October 10, 2019

Category	Number
Certified Patients	67,480
Active Certified Patients	60,971
Active Caregivers	6,438
Registered Certifying Clinicians	318



What's Next?

The Licensing Queue (as of October 10, 2019)

Туре	#
Pending	377
Withdrawn	374
Incomplete	3379
Commission Action Taken (Approved/Denied)	211
Total	4341



What's Next? Ongoing Challenges And Opportunities

- Vaping Ban
- Social Equity
- Diversity
- Industry Structure
 - Craft Cultivation Cooperatives
 - Independent Testing Labs
 - Research Licenses
- HCA Process and Content
- Banking



Thank You!

Steven Hoffman <u>steven.j.hoffman@mass.gov</u> MassCannabisControl.com



Risk Management Strategy & Solutions •

Balance Sheet Strategies in an Inverted Yield Curve Environment Why Now is the Best Time to Formulate a Winning Game Plan!

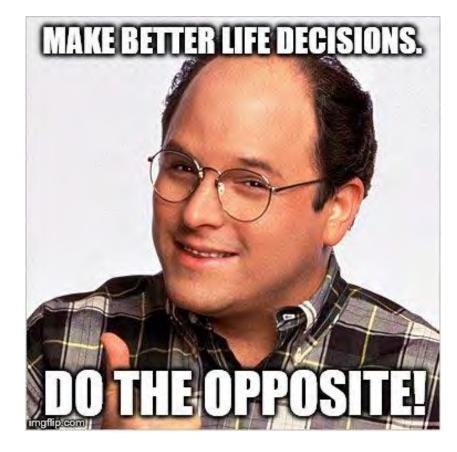
November 8, 2019

Frank L. Farone, Managing Director ffarone@darlingconsulting.com



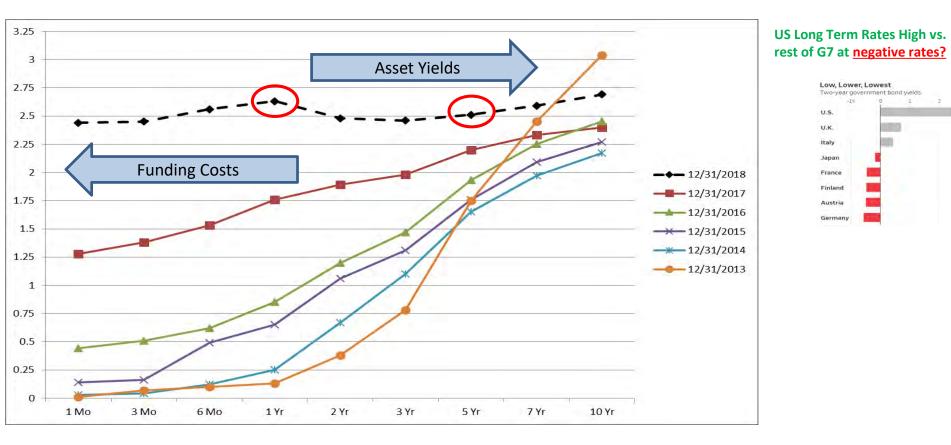








YOUR Strategies Throughout Journey?

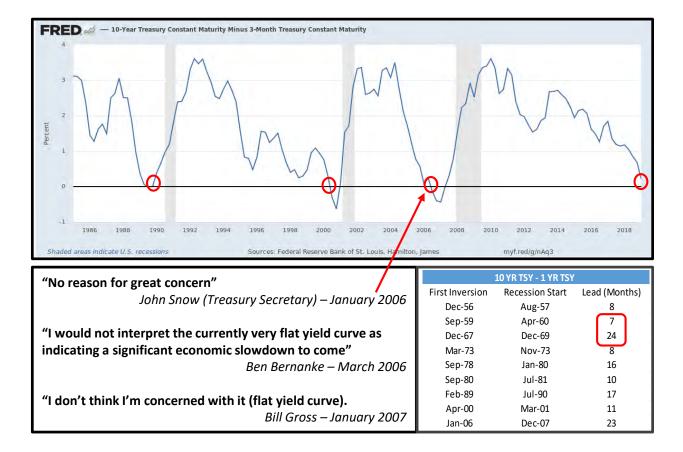


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Curve Inversion FAST Approaching! Watch Out Below!



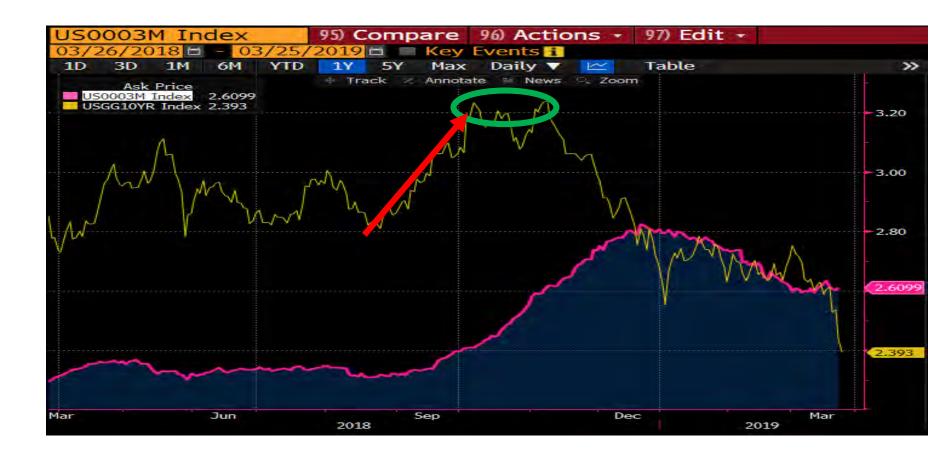
"Is This Time Different"?





Flattening Curve Last October (Expecting 3 FED Hikes)

Think Opposite? BUY LONG ASSETS Before Curve Inverts!!





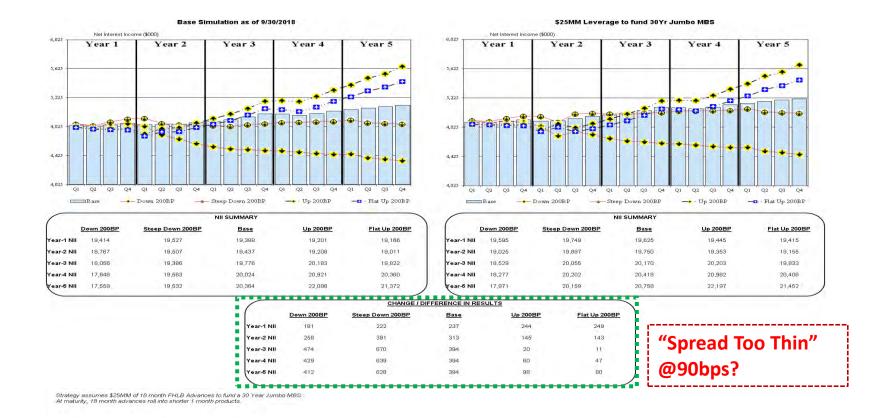
4.05% GNMA Jumbo MBS \$95 13/32 (No Credi

Ent	er all	l val	ues	and hi	t <go></go>					
G2	4A5125	Mtge		•	Actions	 Setting 	<u>js</u>			Yield Table
G2JM	13 N		3.	.466(352)	7 CUSIP 361	175 TVS1 Poo	l Level		A	s of 10/2018 🔹
10/2	2018 <mark>39</mark> F	0.6C	0.0E	3 Traits	JM, 3	30/30 Coupor	1 3.0000 Ma	aturity 4/20/	2048 CA 3	8% 2018 99 %
3Mo		0.3	0.0	4/1/2		49,983 Delay		ext Pay 11/20/		0% 2017 1%
6Mo		2.5	0.0	10/1/		94,686 TV	89 Ac		· · · · · · · · · · · · · · · · · · ·	0% 2016 0%
12M				Facto		765386 <u>W. OLS</u>	672,785 MA	XLS 1,563	· · · · · · · · · · · · · · · · · · ·	<u>6% 2015 0%</u>
Life	283	2.5		# Loa	ns	68			******	
_						-,	ld			
Settl	le <mark>1</mark> 0	/18/18	-	+300 MED	+200 MEI	D +100 MED	0 MED	-100 MED	-200 MED	-300 MED
Vary		0		98 PSA	107 PS#	۱45 PSA الم	. 297 PSA	843 PSA	1299 PSA	1334 PSA
Price		95-13		3.5839	3,603			5.3503	6.4114	6.4940
Avg_				10.30	9.89			2.10	1.42	1.38
	Duration			7.90	7.63			1.91	1.32	1.28
Prin		Date	11,	/18-2/48	11/18-2/48				11/18-7/34	11/18-9/33
		oread 🔹		42	44			247	366	375
Oct1		1.99		un May	Apr Mar Fe	b Jan Dec I	VOV GOVT(I	6M 1Y 2Y		7Y 10Y 30Y
39		6 16		35 115				2.46 2.66 2.87		.11 3.16 3.34
0.6		0.1 1:		0.2 0.5			Disc 30/3		5Y 99-10 ³	
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BUY JUMBO MBS 4.05%; Fund Short; **90bp Spread Too Thin?**

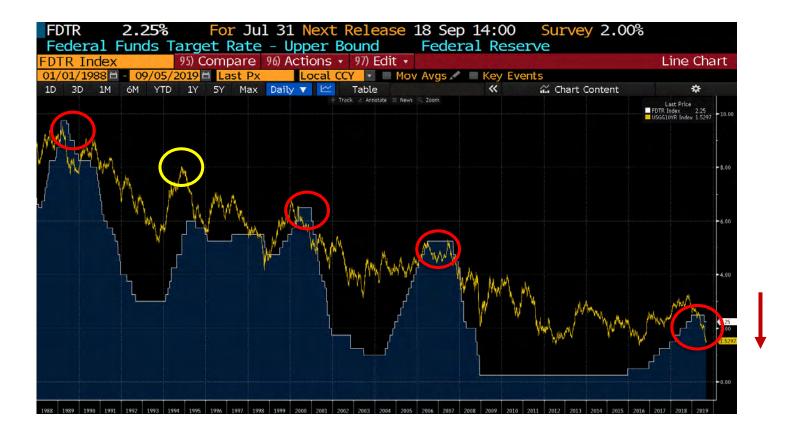
1 Year Ago: 3-4 Fed Hikes Ahead...Let's Wait to Buy... Think Opposite!





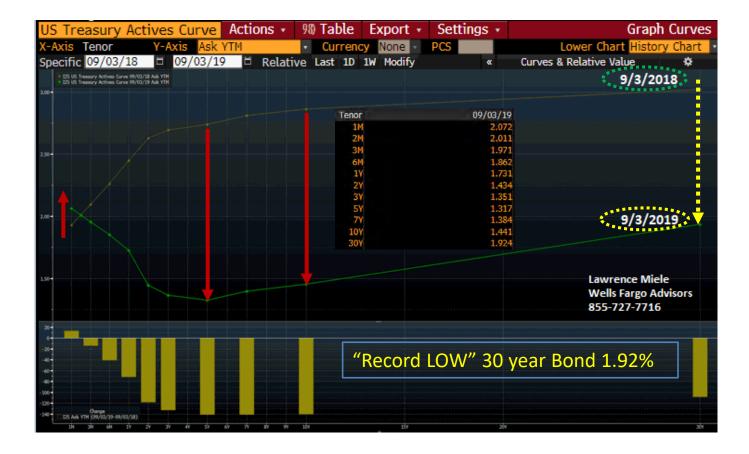


Today's INVERTED Curve: FFS vs. 10 year!





Now What Do We Do?



June 2019 vs. June 2018 Year Over Year Comparison \$194MM Growth



Lower Yields on Loans & Investments, Higher COST of FUNDS = LOWER NII



What if FED Cuts 50bps?



How To Offset NII Impact?

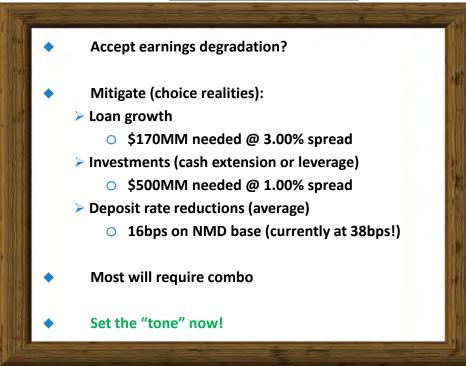




Impact of Short-Term Rates Declining 50bps



Frame the Current Business Issue: Then, "What Do We Do?"





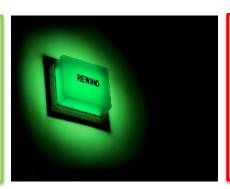


Hit the Rewind Button

Back to the Future

2018-2019

Lengthen Asset Durations
 Shorten Funding Maturities

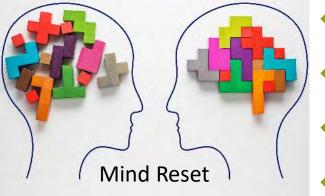


Conventional Wisdom? 2018-2019

- Shorten Asset Durations
- Lengthen Funding Maturities



Why Didn't We...



- Target more fixed-rate oriented loans for portfolio?
- Have more **<u>discipline</u>** with ALCO decisions?
- Accept lower security yields for call protection?
- Promote shorter-term CD Specials?
- Maintain shorter wholesale maturity structures, or Leverage our capital to hedge our worst case scenario ?
- Buy VERY CHEAP insurance against falling rates (e.g. interest rate floors)?
- Pre-invest 2019 Investment Cash Flows, Etc...

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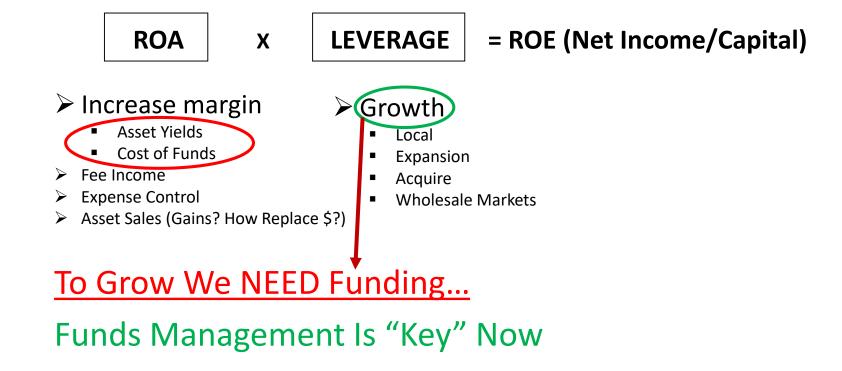
Today's Objective: Establish a Framework for Better Decision Making



Avoid future need to build a time machine to go back and "fix" or correct?



GROWTH *NEEDED* as Margins Shrink

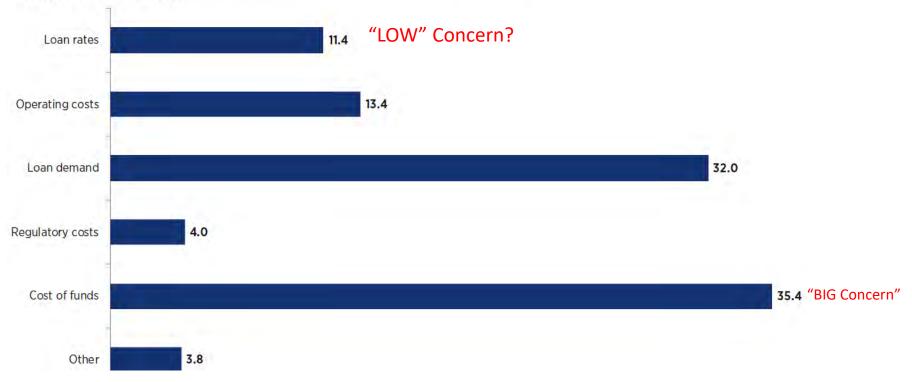




The Importance of Funding*

*Community Banking in the 21st Century

Which of the following is likely to have the biggest influence on profitability over the next 12 months?





Regulatory Lens: Liquidity Management Realities

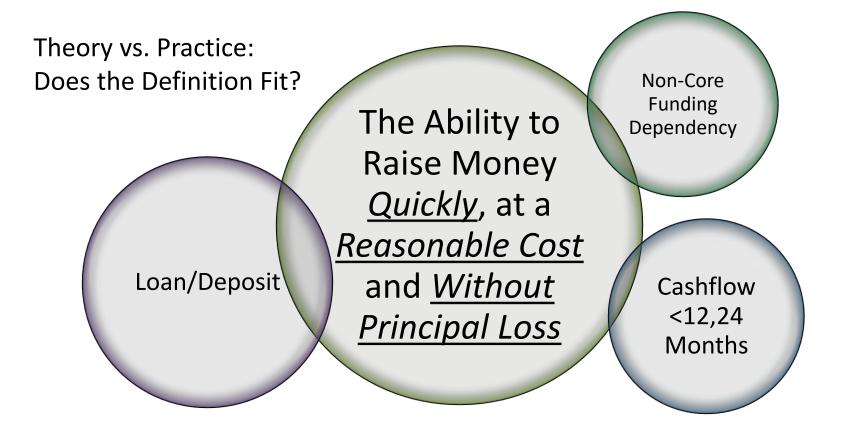


Liquidity, Liquidity, Liquidity!

- "On Balance Sheet" Liquidity: A Key Regulatory Focus
- Loan/Deposit Ratio Discussions "Resurfacing"
- Notable Increase in Interim Liquidity Exams
- Deeper Dives into Contingency Liquidity Planning Robustness



Traditional Liquidity Measures



Basic Surplus - Bank



1 BASIC SURPLUS						TOTAL ASSETS	Other Liquidity Items			
Overnight Funds Sold & Short-Term In	nvestments (avg. ba	alance, if wide d	aily fluctuations)	12.826		577,945	Other Investments			
			· · · ·	,				MARKET		
	TREASURIES & AGENCIES	MBS/CMO	NON-AGENCY MBS/CMO				Company	VALUE	PLEDGED	
Collateral Value		95%	90%				Corporates Municipals	19,579	0	19,57
Market Value		29,920	0				Equities	15,575	0	19,57
							Other	0	0	
Less Securities Pledged to: FHLB	0	0	0				Total	19,580	0	19,58
Fed Discount/Other Secured	0	-1.439	0							
Wholesale Repos	0	-1,439	0				Borrowing Lines			
Retail Repos/Sweeps	-	ő	0				SECURED	LINE	OUTSTANDING	
Municipal Deposits		0	0				Fed BIC Lines	0	0	
Other	0	0	0				Fed Discount / Other	1,439	0	1,439
Available / Unencumbered Security	0	27.057	0	27.057			UNSECURED			
Collateral	0	21,051	0	21,031			Fed Funds Lines	12,000	0	12,00
	Over Collaterali	zed Securities P	ledging Position	1,367			Total	13,439	0	13,43
Cas	h flow (< 30 Days)			895			Unrealized Gain/Loss on S	ecurities (AF	S & HTM)	
Other Liquid As	ssets (Int Bearing D	eposits, MM Mu	itual Funds, etc.)	748						TIER 1
		Tota	al Liquid Assets	42,893				TOTAL	TIER 1 BASIC	% O
									SURPLUS BONDS	
		Volatile Liabi	lities Coverage:						261	0.1%
	Maturian		-	0			Base	944		
	-	Jnsecured Liabil	ities (< 30 Days)	0		POLICY LIMITS (min)	Shock Up 100BP	-533	-128	0.09
	Deposit Coverag	Unsecured Liabil e (5% of Assets/	ities (< 30 Days) 7% of Deposits)	(28,281)		POLICY LIMITS (min) Well Cap. < Well Cap.				0.09
	Deposit Coverag	Unsecured Liabil e (5% of Assets/	ities (< 30 Days)	(28,281)	2.5%		Shock Up 100BP	-533	-128	0.09
2 BASIC SURPLUS	Deposit Coverag	Unsecured Liabil e (5% of Assets/	ities (< 30 Days) 7% of Deposits)	(28,281)	2.5%		Shock Up 100BP Difference	-533 -1,477	-128 -389	0.09
	Deposit Coverag	Jnsecured Liabil e (5% of Assets/ Basic Surplus (\$	ities (< 30 Days) 7% of Deposits) and % of assets)	(28,281) 14,612	2.5%		Shock Up 100BP Difference Notes 1. There are no Municipal d 2. Deposit Coverage metric:	-533 -1,477 eposits requi	-128 -389 ring collateral. vs: 25% of CDs Ma	0.09 0.19 turing <
2 BASIC SURPLUS A. Maxin	Deposit Coverag Tier 1 mum Borrowing Lin	Unsecured Liabil e (5% of Assets/ Basic Surplus (e at FHLB (Up to	ities (< 30 Days) 7% of Deposits) and % of assets)	(28,281) 14,612 144,486	2.5%		Shock Up 100BP Difference Notes 1. There are no Municipal d 2. Deposit Coverage metric 30 Days = \$1,399; 30% of Ju	-533 -1,477 eposits requi s are as follov umbo CDs Ma	-128 -389 ring collateral. vs: 25% of CDs Ma	0.09 0.19 turing <
	Deposit Coverag Tier 1 mum Borrowing Lin B. Loan Colla	Unsecured Liabil e (5% of Assets/ Basic Surplus (e at FHLB (Up to teral at the FHLB	ities (< 30 Days) 7% of Deposits) and % of assets) 25% of Assets)	(28,281) 14,612 144,486 174,399	2.5%		Shock Up 100BP Difference Notes 1. There are no Municipal d 2. Deposit Coverage metric 30 Days = \$1,399; 30% of J 10% of Other Deposits = \$2	-533 -1,477 eposits requi s are as follov imbo CDs Ma 26,595.	-128 -389 ring collateral. ws: 25% of CDs Ma aturing < 30 Days :	0.09 0.19 turing < = \$287;
	Deposit Coverag Tier 1 mum Borrowing Lin B. Loan Colla C.	Unsecured Liabil e (5% of Assets/ Basic Surplus (e at FHLB (Up to teral at the FHLE Excess Loan Co	ities (< 30 Days) 7% of Deposits) and % of assets) 25% of Assets) 8 (net of haircut) Ilateral (if A < B)	(28,281) 14,612 144,486 174,399 29,913	2.5%		Shock Up 100BP Difference Notes 1. There are no Municipal d 2. Deposit Coverage metric: 30 Days = \$1,399; 30% of J 10% of Other Deposits = \$2 3. The Maximum Borrowing	-533 -1,477 eposits requi s are as follov imbo CDs Ma 26,595. Line at the F	-128 -389 ring collateral. ws: 25% of CDs Ma aturing < 30 Days : HLB represents the	0.09 0.19 turing < = \$287;
A. Maxin	Deposit Coverag Tier 1 mum Borrowing Lin B. Loan Colla C. Maximum Borro	Unsecured Liabil e (5% of Assets/ Basic Surplus (e at FHLB (Up to teral at the FHLE Excess Loan Co wwing Capacity (ities (< 30 Days) 7% of Deposits) 3 and % of assets) 5 25% of Assets) 3 (net of haircut) Ilateral (if A < B) Lesser of A or B)	(28,281) 14,612 144,486 174,399 29,913 144,486	2.5%		Shock Up 100BP Difference Notes 1. There are no Municipal d 2. Deposit Coverage metric 30 Days = \$1,399; 30% of J 10% of Other Deposits = \$2 3. The Maximum Borrowing internal policy for maximum	-533 -1,477 eposits requi s are as follow imbo CDs Ma (6,595. Line at the F a borrowing of	-128 -389 ring collateral. vs: 25% of CDs Ma aturing < 30 Days : HLB represents the apacity.	0.09 0.19 turing < = \$287; : Bank's
	Deposit Coverag Tier 1 mum Borrowing Lin B. Loan Colla C. Maximum Borro mbered by Outstan	Unsecured Liabil e (5% of Assets/ Basic Surplus (5 e at FHLB (Up to teral at the FHLE Excess Loan Co wing Capacity (uding Advances/	ities (< 30 Days) 7% of Deposits) and % of assets) 2 25% of Assets) 3 (net of haircut) Ilateral (if A < B) Lesser of A or B) Letters of Credit	(28,281) 14,612 144,486 174,399 29,913 144,486 89,687	2.5%		Shock Up 100BP Difference Notes 1. There are no Municipal d 2. Deposit Coverage metric: 30 Days = \$1,399; 30% of J 10% of Other Deposits = \$2 3. The Maximum Borrowing	-533 -1,477 eposits requi s are as follou mbo CDs Mi (6,595. Line at the F h borrowing o as of 6/30/20	-128 -389 ring collateral. w: 25% of CDs Ma aturing < 30 Days : HLB represents the rapacity. J19 is comprised o	0.09 0.19 turing < = \$287; : Bank's
A. Maxin	Deposit Coverag Tier 1 mum Borrowing Lin B. Loan Colla C. Maximum Borro	Jnsecured Liabil e (5% of Assets/ Basic Surplus (5 e at FHLB (Up to teral at the FHLB Excess Loan Co owing Capacity (ding Advances/ Loan Based Bor	ities (< 30 Days) 7% of Deposits) and % of assets) 0 25% of Assets) 3 (net of haircut) llateral (if A < B) Lesser of A or B) Letters of Credit rowing Capacity	(28,281) 14,612 144,486 174,399 29,913 144,486 89,687 54,799			Shock Up 100BP Difference Notes 1. There are no Municipal d 2. Deposit Coverage metric 30 Days = \$1,399; 30% of Jr 10% of Other Deposits = \$2 3. The Maximum Borrowing internal policy for maximum 4. Qualifying Ioan collateral	-533 -1,477 eposits requi s are as follou mbo CDs Mi (6,595. Line at the F h borrowing o as of 6/30/20	-128 -389 ring collateral. w: 25% of CDs Ma aturing < 30 Days : HLB represents the rapacity. J19 is comprised o	0.09 0.19 turing < = \$287; : Bank's
A. Maxin	Deposit Coverag Tier 1 mum Borrowing Lin B. Loan Colla C. Maximum Borro mbered by Outstan	Jnsecured Liabil e (5% of Assets/ Basic Surplus (5 e at FHLB (Up to teral at the FHLB Excess Loan Co owing Capacity (ding Advances/ Loan Based Bor	ities (< 30 Days) 7% of Deposits) and % of assets) 2 25% of Assets) 3 (net of haircut) Ilateral (if A < B) Lesser of A or B) Letters of Credit	(28,281) 14,612 144,486 174,399 29,913 144,486 89,687	2.5%		Shock Up 100BP Difference Notes 1. There are no Municipal d 2. Deposit Coverage metric 30 Days = \$1,399; 30% of Jr 10% of Other Deposits = \$2 3. The Maximum Borrowing internal policy for maximum 4. Qualifying loan collateral \$120.7MM of Residential lo	-533 -1,477 eposits requi a are as follow mbo CD5 Mi (6,595. Line at the F h borrowing of as of 6/30/20 ans and \$53.	-128 -389 ring collateral. vs: 25% of CDs Ma sturing < 30 Days : HLB represents the rapacity. D19 is comprised o 7MM of CRE loans	0.09 0.19 turing < = \$287; : Bank's
A. Maxin	Deposit Coverag Tier 1 mum Borrowing Lin B. Loan Colla C. Maximum Borro mbered by Outstan	Jnsecured Liabil e (5% of Assets/ Basic Surplus (5 e at FHLB (Up to teral at the FHLB Excess Loan Co owing Capacity (ding Advances/ Loan Based Bor	ities (< 30 Days) 7% of Deposits) and % of assets) 0 25% of Assets) 3 (net of haircut) llateral (if A < B) Lesser of A or B) Letters of Credit rowing Capacity	(28,281) 14,612 144,486 174,399 29,913 144,486 89,687 54,799			Shock Up 100BP Difference Notes 1. There are no Municipal d 2. Deposit Coverage metric 30 Days = \$1,399; 30% of <i>J</i> 10% of Other Deposits = \$2 3. The Maximum Borrowing internal policy for maximum 4. Qualifying loan collutaral \$120.7MM of Residential lo haircut). 5. FRB Discount Window is : 6. The \$12 million unsecure	-533 -1,477 eposits requi s are as follow mbo CDs Ma (6,595. Line at the F h borrowing of as of 6/30/20 ans and \$53. secured by M d Fed Funds	-128 -389 ring collateral. ws: 25% of CDs Ma aturing < 30 Days : HLB represents the rapacity. 19 is comprised o 7MM of CRE loans IBS collateral. Line represents \$51	0.0% 0.1% turing < = \$287; : Bank's f (net
A. Maxin Collateral Currently Encur 8 3 BASIC SURPLUS	Deposit Coverag Tier 1 mum Borrowing Lin B. Loan Colla C. Maximum Borro mbered by Outstan Remaining FHLB	Jnsecured Liabil e (5% of Assets/ Basic Surplus (9 teral at the FHLB Excess Loan Co wing Capacity (Iding Advances/ Loan Based Bor Tier 2	ities (< 30 Days) 7% of Deposits) 5 and % of assets) 0 25% of Assets) 0 3 (net of haircut) Allateral (if A < 8) Letser of A or 8) Letters of Credit rowing Capacity 2 Basic Surplus	(28,281) 14,612 144,486 174,399 29,913 144,486 89,687 54,799 69,411			Shock Up 100BP Difference Notes 1. There are no Municipal d 2. Deposit Coverage metric 30 Days = \$1,399; 30% of J 10% of Other Deposits = \$2 3. The Maximum Borrowing internal policy for maximun 4. Qualifying Ioan collateral \$120.7MM of Residential Io haircut). 5. FRB Discount Window is: 6. The \$12 million unsecure Co-operative Central Bank a	-533 -1,477 eposits requi a are as follow mbo CDs Mi (6,595. Line at the F h borrowing of as of 6/30/20 ans and \$53. secured by M d Fed Funds and \$7MM w	-128 -389 ring collateral. vs: 25% of CDs Ma sturing < 30 Days : thus of the second second the second second second rMM of CRE loans IBS collateral. Line represents \$51 th PCBB (available	0.09 0.19 turing < = \$287; : Bank's f (net MM with July
A. Maxin Collateral Currently Encur	Deposit Coverag Tier 1 mum Borrowing Lin B. Loan Colla Grow Maximum Borrow Maximum Borrow Maxim Maximum Borrow Maximum Borrow Maxim Maximum Borrow Maximum B	Jnsecured Liabil e (5% of Assets/ Basic Surplus (9 e at FHLB (Up to teral at the FHLB Excess Loan Co wing Capacity (dig Advances/ Loan Based Bor Tier 2 Deposit Capacity	ities (< 30 Days) 7% of Deposits) and % of assets) 5 25% of Assets) 3 (net of haircut) Ilateral (if A < B) Letters of Credit rowing Capacity 2 Basic Surplus	(28,281) 14,612 144,486 174,399 29,913 144,486 89,687 54,799 69,411 57,795			Shock Up 100BP Difference Notes 1. There are no Municipal d 2. Deposit Coverage metrici 30 Days = \$1,399; 30% of Ju 10% of Other Deposits = \$2 3. The Maximum Borrowing internal policy for maximum 4. Qualifying Ioan collateral \$120.7MM of Residential Io haircut). 5. FRB Discount Window is : 6. The \$12 million unsecure Co-operative Central Bank a 2019). Although unsecured,	-533 -1,477 eposits requi is are as follow mbo CDs Mi (6,595. Line at the F aborrowing of as of 6/30/2(ans and \$53. secured by M d Fed Funds is and \$7MM w the Co-oper	-128 -389 ring collateral. ws: 25% of CDs Ma aturing < 30 Days : HLB represents the apacity. D19 is comprised o 7MM of CRE loans IBS collateral. Line represents \$51 ith PCBB (available ative Central Bank	0.09 0.19 turing < = \$287; : Bank's f (net MM with July reserves
A. Maxin Collateral Currently Encur 3 BASIC SURPLUS Maximum Board Authorized B	Deposit Coverag Tier 1 mum Borrowing Lin B. Loan Colla Grow Maximum Borrow Maximum Borrow Maxim Maximum Borrow Maximum Borrow Maxim Maximum Borrow Maximum B	Jnsecured Liabil e (5% of Assets/ Basic Surplus (9 e at FHLB (Up to teral at the FHLB Excess Loan Co wing Capacity (ding Advances/ Loan Based Bor Tier 2 Deposit Capacity ered/National D	ities (< 30 Days) 7% of Deposits) 3 and % of assets) 0 25% of Assets) 3 (net of haircut) Illateral (if A < B) Lesser of A or B) Lesters of Credit rowing Capacity 2 Basic Surplus (10% of Assets) Deposit Balances	(28,281) 14,612 144,486 174,399 29,913 144,486 89,687 54,799 69,411 57,795 16,216			Shock Up 100BP Difference Notes 1. There are no Municipal d 2. Deposit Coverage metric 30 Days = \$1,399; 30% of J 10% of Other Deposits = \$2 3. The Maximum Borrowing internal policy for maximun 4. Qualifying Ioan collateral \$120.7MM of Residential Io haircut). 5. FRB Discount Window is: 6. The \$12 million unsecure Co-operative Central Bank a	-533 -1,477 eposits requi is are as follow mbo CDs Mi (6,595. Line at the F aborrowing of as of 6/30/2(ans and \$53. secured by M d Fed Funds is and \$7MM w the Co-oper	-128 -389 ring collateral. ws: 25% of CDs Ma aturing < 30 Days : HLB represents the apacity. D19 is comprised o 7MM of CRE loans IBS collateral. Line represents \$51 ith PCBB (available ative Central Bank	0.09 0.19 turing < = \$287; : Bank's f (net MM with July reserves



D-C-G

What is Your Liquidity Policy?

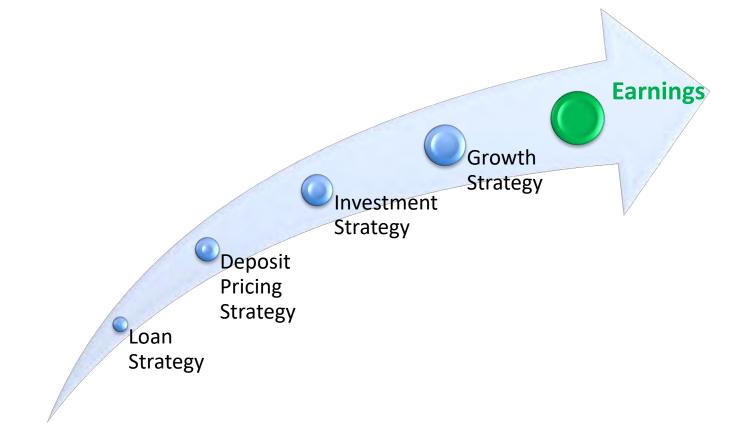
Executive Risk Summary - 6/30/2019

LIQUIDITY: LOW RISK													
BASIC SURPLUS	POLICY	JUN19	MAR19	DEC18	SEP18	JUN18	OTHER LIQUIDITY MEASURES	POLICY	JUN19	MAR19	DEC18	SEP18	JUN1
Basic Surplus (Min.)		3,5	3.2	3.4	3,6	3,9	Borrowings / Assets (Max.)	35.0	20,6	20,5	24.4	28,0	27.0
Basic Surplus w/ FHLB (Min.)	2.0	17.9	17.8	20.3	13,0	15.7	Brokered Deposits / Assets (Max.)	50.0	16.4	16.9	17.9	15.8	16.6
Basic Surplus w/ FHLB & Brokered (Min.)	8.0	51.5	50,9	52.4	47,3	49.1	Total Wholesale Funds / Assets (Max.)	65,0	37,0	37.4	42.4	43,8	43,6
							Net Loans / Deposits	\rightarrow	122,3	123,6	129,0	140,4	136,5
							Net Loans / Assets		83.7	84.5	84.3	85,1	84.3
							National Deposits / Assets	15.0	12.7	10.7	6.0	5.3	4.1

	<u>Value</u>	<u>Percentile</u>	<u>Bank Peer</u>		<u>Value</u>	<u>Percentile</u>	<u>Bank Peer</u>
ROA	2.25	93	1.37	Equity / Tot Assets	9.30	9	12.68
ROE	24.33	97	11.40	Lev Cap / Tot Assets	9.05	6	12.37



Liquidity Management Impacts:





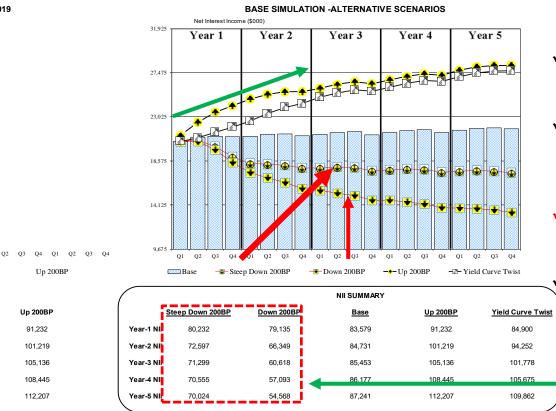
7 Common Excuses NOT to Use Wholesale Funding

- 1. Wholesale funding is too costly
- 2. Deposits reflect relationships, borrowings do not
- 3. Wholesale funding does not increase value of franchise or attain mission of our institution
- 4. Lack of spread (hint: best opportunities when spread tightest)
- 5. Negative regulatory attitude (perpetuates board/Mgm't negativity)
- 6. No *need* for funds, **flush with cash**!
- 7. Not set up to borrow! (Really?! Liquidity Mgm't malpractice!)



Step 1: Interest Rate Risk Position?

Parallel Rate Ramps & Steepening of Market Yield Curves



Key Points:

- Asset sensitive and ultimately very well positioned for higher interest rates
- Amount of overall rising rate benefit will depend on (1) pace of rate hikes and (2) shape of market yield curves and "when" rates rise!
- ✓ Falling rates proves to be the most problematic scenario for NII
 - Deposit stability and pricing sensitivity remain important "unknowns"; Revisit MCOF wholesale

Slope Matters...A LOT!!



Step 2: Given STRONG Liquidity Position...

Where Do We Want to Position Our Funding? At What Cost?

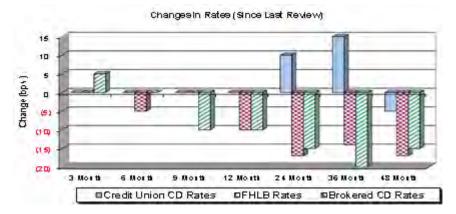
Non-Maturity Deposit Products

Primary Savings Owners Choice Savings Preferred Savings Preferred Pus Savings Preferred Pus Savings	Rate (APY) 0.30% 0.30% 0.30% Low Tier 0.85% High Tier 0.30% Low Tier 2.02% High Tier
Preferred Plus Savings	2.02% High Tier

	Rate (APY)
3 Month	0.90% (
6 Month	0.90%
9 Month	1.41%
12 Month	176%
24 Month	2.63%
36 Month	2.78%
 48 Month 	2.73%
50 Month	

Time Deposite





Marginal Cost Analysis: CD Maturities

October 7, 2019

Reg.

1.88

1.83

1.80

1.82

2.01

2.23

Term

1yr 2yr

Зyr

5yr

7yr

10yr



	Time Deposits Ma	aturing Next 6	Months	
BALANCE: RENEWAL RATE:	\$196,967 2.25%			If cost to retain is 2.25% in local market for 2 year CDconsider offering 7
	_	RATE DI	ECREASE	_ month CD @1.75%
		0.25%	0.50%	
	10.00%	4.50%	6.75%	Need to replace any outflows at
	20.00%	3.25%	4.25%	
RUNOFF PROTECTED	30.00%	2.83%	3.42%	these rates to "break-even"
	50.00%	2.50%	2.75%	Long-Term Classic Advance Rates
			•	Effective 12:27 PM

CDA Extra

1.76

1.57

1.53 1.53

1.69

1.88

CDA

1.79

1.61

1.58

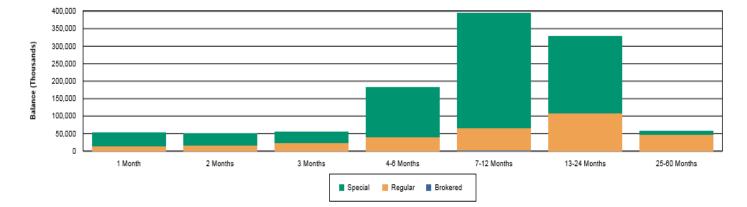
1.60

1.78

1.99

Time Deposit Maturities





	1 Month	2 Months	3 Months	4-6 Months	7-12 Months	13-24 Months	25-60 Months	60+ Months	Total
Regular	12,769	14,594	23,666	38,747	64,121	107,086	45,856	-	306,839
	1.50%	1.51%	1.69%	1.39%	1.90%	2.15%	1.94%	-	1.97%
	506	501	686	1,369	2,428	3,930	1,619	-	11,037
Special	41,486	36,787	32,684	143,737	328,976	222,122	11,761	-	817,552
	1.92%	1.95%	1.96%	2.45%	2.60%	2.72%	2.41%	-	2.53%
	787	761	796	3,366	7,106	5,096	318	-	18,230
Brokered		•	•	•	996	-	-	-	996
	-		-	-	2.40%	-	-	-	2.40%
	-	-	-	-	1	-	-	-	1
Fotal	54,255	51,380	56,350	182,484	394,093	329,208	57,616		1,125,387
	1.82%	1.83%	1.85%	2.14%	2.48%	2.47%	2.04%		2.37%
	1,293	1,262	1,482	4,735	9,533	9,026	1,937		29,268
Cumulative	54,255	105,636	161,986	344,470	738,563	1,067,771	1,125,387	1,125,387	
	1.82%	1.82%	1.83%	2.09%	2.30%	2.39%	2.37%	2.37%	
	1,293	2,555	4,037	8,772	18,305	27,331	29,268	29,268	

Pricing Relief? Drop 8 month CD to 2.00%





("Marginal Cost of Funds" Discussion)



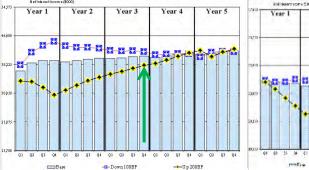


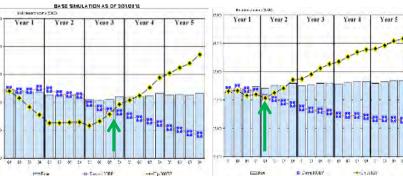
Falling Rates SIGNIFICANT EXPOSURE (for Vast Majority!)

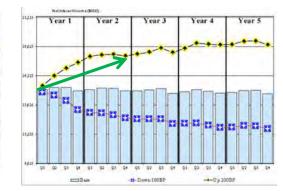


- *Few Do Not Have* Fixed Rate Capacity
- "Matched Funding" a Myth
- Biases "Get in the Way"









Strategy Considerations





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NII RESULTS					
	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR
VIELD CURVE TWIST	50,473	46,648	44,784	47,594	51,56
UP 200BP	47,419	43,381	45,601	49,035	52,75
BASE	50,654	50,402	50,362	49,656	49,28
DOWN 100BP	52,210	54,213	54,534	53,311	52,43
STEEP DOWN	52,631	54,823	56,187	55,708	55,31

Considerations:

- Balancing exposure to both rising and falling rates
- If extending: How far? How much of protection?
- Cost of insurance to rising? Free <u>today</u> w/inversion
- Understand most effective options
- Should be able to extend assets
- Deposit strategy: New money (MCOF issue)
- Keep funding "short" or go longer? Swap?
- Mismatched leverage or growth
- AVOID selling options
- Swaps/Caps (Last of layer approach)



Chatham

NOTE: Decline in 5 Year Rate to 1.20% (Market Overly Pessimistic?)

Financial Institutions Group - Market Update

Friday, October 4, 2019

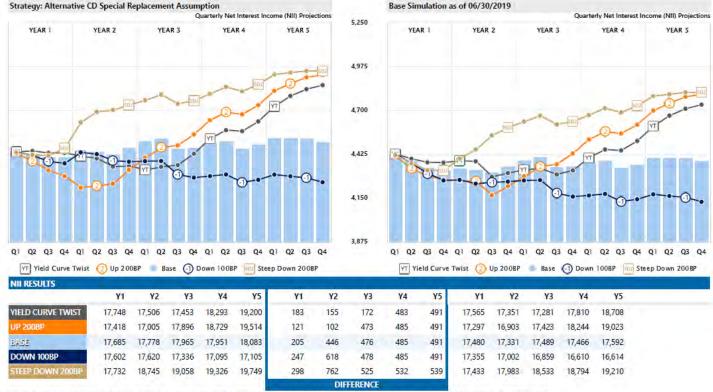
Index Rat	tes	Treasury F	Rates	Fed Funds S	wap Rates
Term	Rate	Term	Rate	Term	Rate
1m LIBOR	1.978%	3 Month Bill	1.69%	1 Year	1.34%
3m LIBOR 2.027%		6 Month Bill	1.65%	2 Year	1.16%
6m LIBOR 1.951%		2 Year Note	1.40%	3 Year	1.09%
12m LIBOR	1.853%	3 Year Note	1.36%	4 Year	1.07%
Prime C	5.000%	5 Year Note	1.35%	5 Year	1.07%
Eff. Fed Funds	1.830%	10 Year Note	1.53%	7 Year	1.10%
SOFR Rate	1.840%	30 Year Bond	2.02%	10 Year	1.18%



	1m LIBOR Swap Rates						3m LIBOR Swap Rates								PRIME Swap Rates						
-	D.II.	Amortization Period						D. H.	11.11	Amortization Period						Amortization Period					
Term	Bullet	10	15	20	25	30	Term	Term Bullet	10	15	20	25	30	Term	Bullet	10	15	20	25	30	
1	1.48%	1.48%	1.48%	1.48%	1.48%	1.48%	1	1.64%	1.64%	1.64%	1.64%	1.64%	1.64%	1	4.44%	4.44%	4.44%	4.44%	4.44%	4.44%	
2	1.29%	1.30%	1.30%	1.29%	1.29%	1.29%	2	1.43%	1.44%	1.43%	1.43%	1.43%	1.43%	2	4.23%	4.24%	4.23%	4.23%	4.23%	4.23%	
3	1.23%	1.24%	1.23%	1.23%	1.23%	1.23%	3	1.35%	1.36%	1.36%	1.35%	1.35%	1.35%	3	4.14%	4.16%	4.15%	4.15%	4.15%	4.15%	
4	1.20%	1.22%	1.21%	1.21%	1.21%	1.21%	4	1.32%	1.34%	1.33%	1.32%	1.32%	1.32%	4	4.10%	4.12%	4.11%	4.11%	4.11%	4.11%	
5	1.20%	1.22%	1.21%	1.21%	1.20%	1.20%	5	1.31%	1.33%	1.32%	1.32%	1.32%	1.31%	5	4.09%	4.11%	4.10%	4.10%	4.09%	4.09%	
7	1.23%	1.23%	1.23%	1.23%	1.23%	1.23%	7	1.34%	1.35%	1.34%	1.34%	1.34%	1.34%	7	4.12%	4.12%	4.12%	4.12%	4.12%	4.12%	
10	1.31%	1.25%	1.28%	1.29%	1.30%	1.30%	10	1.41%	1.37%	1.39%	1.40%	1.41%	1.41%	10	4.18%	4.14%	4.16%	4.17%	4.17%	4.18%	



Strategy #1: Lower CD Rates- Incent Shorter



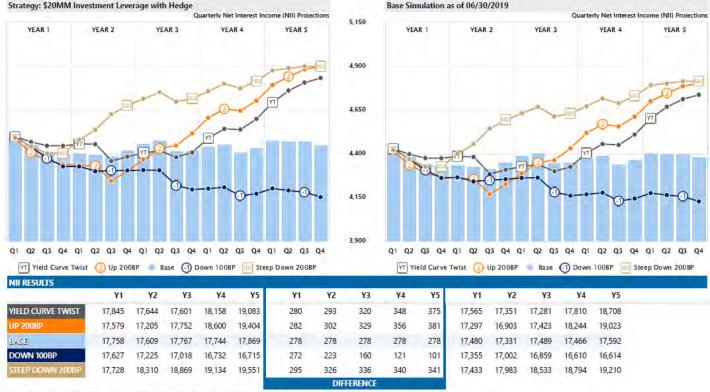
1. Alternative simulation assumes 50% of all non-special CD maturities and 100% of all existing CD specials replace evenly into a 5 month CD special @ 1.65% and a 11 month CD special @ 1.85%.

2. Base simulation assumes 50% of all non-special CD maturities and 100% of all existing CD specials replace into a 15 month CD special @ 2.20%.



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Jumbo 30 Year MBS Funded by Short Borrowings w/Swaps



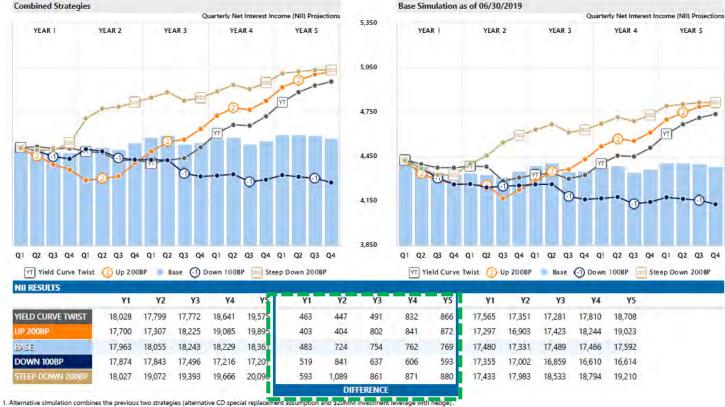
1. Alternative simulation assumes \$20 million of short-term FHLB advances @ 2.29% are utilized to purchase GNMA Jumbo 30Y MBS @ 3.06%.

2. Alternative simulation also assumes a \$20 million 7 year pay fixed (1.53%) receive floating 3 month LIBOR (2.14%) interest rate swap.

Combined Strategies 1 & 2:



Alternative Assumed Time Deposit Special Terms/Rates & Bond Leverage





Price as of 10/22/2019



WF Finan GNMA 3.5				ss Through	: 3 Months old	d.					G2 MA	5030 Mtae		 Scenario 	os∽ Strat	ify 🗝 🛛 A	Actions -	Settings		Yield Table
G2 MA6	-			-	tions 👻	Setting	5			Yield Table	G2JM 3.5	N	4.001(356)3 CUSIP	36179UVX7 Po	olLevel	•			As of 10/2019 •
G2JM 3.5	N		4.001(35	5)3 CUSIF	36179UVX7	Pool Level	18			As of 10/2019	10/2019	198P 1.2C	0.0B	Traits	JM, 30/360	Coupon	3.50%	Maturity	7/20/49 CA	49% Other 0%
10/2019	198P	1.20	0.0B	Traits	JM, 30,	/360 Coupon	3.50% Mat	turity 7/2	0/49 CA	49% Other 0%	a 3Mo	450 1.8	0.3	7/1/2019	775,863,366	LTV/HLTV	94/94	Accrual	11/1-11/30 VA	12% 2019 100%
3Mo	450	1.8	0.3	7/1/2019	775,863	3,366 LTV/HLTV	94/94 Act	crual 11/1-1	1/30 VA	12% 2019 100	6Mo			10/1/2019	768,980,667		2,108,562	Next Pay	12/20/19 MD	5% 2018 0%
6Mo				10/1/2019	768,980	667 MAXLS	2,108,562 Nex	kt Pay 12/2	0/19 MD	5% 2018 0	12Mo			Factor	0.99112898		629,152		CO	5% 2017 0%
12Mo				Factor	0.9911	2898 WAOLS	629,152		CO	58 2017 0	Life	450 1.8		# Loans	1,276					
Life	450	1.8		# Loans	1	1,276						1) Price-to	o-Yield		Cashflows	 30) Table 	e 31) Graph			32) Close Report
1	_			-		1) Price-to-Yield	1.11	the second second		and herein the		ond Flow					An investor	in this GNMA	, jumbo, 30 YR AM p	ass through can
Settle	11/	20/19	+3(0 MED	+200 MED	+100 MED	0 MED	-100 MED	-200 MEI	-300 MEI	Orig Ba		53,366 US						half of their initia	
											Prev B			Your Prev					ugh accumulated n	
Vary		0	10	3 PSA	118 PSA	164 PSA	263 PSA	535 PSA	1036 PS/	4 1217 PS#				Start 11/01/19, D	elay 19, WAL 5.8		assumption		Bloomberg	repayment
											Shou	w precise amo	_	Annually 👘						
													ates	Balance			Unsched	Interes		
											To	tals			306,42		.,694,114	410,67		
Price	1	02-01		8.2516	3.2364	3.1890	3.0844	2.8017	2.3250	2.1629	» 1.	11/20/2		1,855,624	35,34		109,578	68,04		
FILE	1	02-01		0.2310	3.2304	3.1070	3.0044	2.0017	2,323	2,102	2.	11/20/2		1,604,401	^{33,68} ל ל		217,542	61,17		
											3.	11/20/2		1,324,511			249,782	51,52		
											4.	11/20/2		1,091,472	V 26,39		206,648	42,49		
				-		-					5.	11/20/2		898,174			170,166	34,99		
Avg Life				10.38	9,73	8,09	5.87	3,33	1,9	3 1.69	0.	11/20/2		737,979	20,27		139,919	28,77		
Mod Dur	ation	-		8.06	7.64	6.57	5.01	3,05	1.84	4 1.63	2 7.	11/20/2		605,343			114,864	23,62		
Prin Wir	C)ate 🔹	12/19	-6/49 1	2/19-6/49	12/19-6/49	12/19-6/49	12/19-6/49	12/19-10/4	5 12/19-2/40	8.	11/20/2		495,635	15,57		94,130	19,36		
	I Spr	ead •		145	145	145	143	120	70	0 59	у,	11/20/2	2028	404,990	13,65		76,990	15,84	3 106,48	7 3.500
Oct19	Sep	Aug :	Jul Jun	May Apr	Mar Feb	Jan Dec N	OV GOVT(I	6M 1Y 2Y	3Y 5Y	7Y 10Y 30		Sep Aug	JUL JI	un May Apr	Mar Feb Jar	n Dec No		6M 1Y	27 37 57	7Y 10Y 30Y
198P 1	.010	67					12:12 1.	61 1.58 1.62	1.60 1.61	1.70 1.79 2.2							12:13	1.62 1.58	1.62 1.60 1.61	1.70 1.79 2.27
1.20	4.0	0.1					Disc 30/36	0	5Y 99-	15 7Y 99-1	6 1.20	4.0 0.1					Disc 30	/360	5Y 99-1	414 99-16



Investments

- Review plan for reinvestment of upcoming cash flow
 - Discuss merits of <u>pre-investment strategies</u>
 - > Review any "repositioning" opportunities (sell Callable Bonds and re-

ASSETS		Q1Y1	Q2Y1	Q3Y1	Q4Y1	Q1Y2	Q2Y2	Q3Y2	Q4Y2	¥3	¥4	¥5	>¥5	60MM	W				
TREASURIES & AGENCIES		6,500	1,000	0	375	0	0	0	0	500	500	500	2,500	48MM	-				
MBS & CMO'S		2,940	2,643	2,199	1,865	1,533	1,287	1,346	1,290	3,924	3,062	2,539	16,213	36MM					
MUNICIPALS		1,685	355	1,075	2,585	585	1,210	0	480	665	1,640	505	5,095	24MM	Ť.				
OTHER INVESTMENTS	1	13	500	258	1,000	13	0	1,012	0	1,275	1,025	525	8,324	12MM		1	-	-	
TOTAL		11,138	4,498	3,532	5,825	2,130	2,497	2,358	1,220	6,364	6,227	4,069	32,132	0		5	5	10	5
CUMULATIVE		11,138	15,636	19,168	24,992	27,123	29,620	31,977	33,747	40,111	46,338	50,407	82,539						7
														_					
ASSETS		Q1Y1	Q2Y1	Q3Y1	Q4Y1	Q1Y2	Q2Y2	Q3Y2	Q4Y2	¥3	¥4	¥5	>Y5	CASH FLOW	w				
TREASURIES & AGENCIES		6,500	1,500	1,500	1,875	0	0	0	0	0	500	0	0						
TREASURIES & AGENCIES MBS & CMO'S	-	6,500 3,047	1,500 3,828	1,500 3,963	1,875 3,879	0 3,334	0 2,678	0 2,472	0 2,012	0 4,521	500 2,612	0 1,782	0 6,712	48MM					
													1	48MM 36MM	-				
MBS & CMO'S		3,047	3,828	3,963	3,879	3,334	2,678	2,472	2,012	4,521	2,612	1,782	6,712	48MM 36MM 24MM					
MBS & CMO'S MUNICIPALS		3,047 1,685	3,828 355	3,963 1,075	3,879 2,585	3,334 585	2,678 1,495	2,472 0	2,012 755	4,521 1,160	2,612 1,940	1,782 365	6,712 3,880	48MM 36MM 24MM					
MBS & CMO'S MUNICIPALS OTHER INVESTMENTS		3,047 1,685 1,013	3,828 355 1,000	3,963 1,075 258	3,879 2,585 2,000	3,334 585 13	2,678 1,495 0	2,472 0 1,012	2,012 755 500	4,521 1,160 1,275	2,612 1,940 25	1,782 365 25	6,712 3,880 6,824	48MM 36MM 24MM 12MM	A	2 •	4 II	1 A	4 1



\$50MM Leverage Blend 20 Year & 30 Yr. MBS

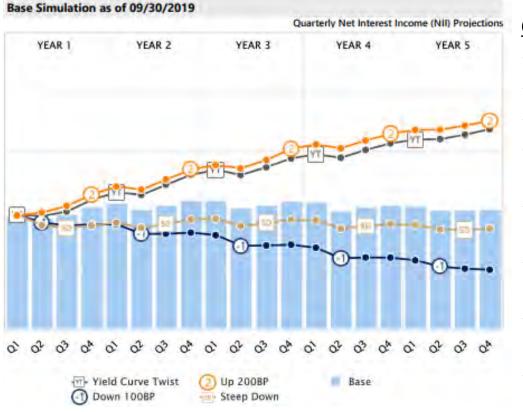
4 Year Fixed Pay Swap and 1 Month Advances (Split 50/50)





Strategy Considerations

Asset Sensitive IRR Profile



Considerations:

- Extend cash/pre-invest (MBS, DUS, Trsy)
- Consider buying call protection
- Mismatched leverage(using swaps too)
- Understand capacity to extend assets ("core funding" utilization...)
- Flexibility with commercial deals and structures; front run repricing deals
- Hold LOW loan/value fixed rate mortgages
- Positioning of wholesale funding and deposit specials "short"
- Understand role of derivatives

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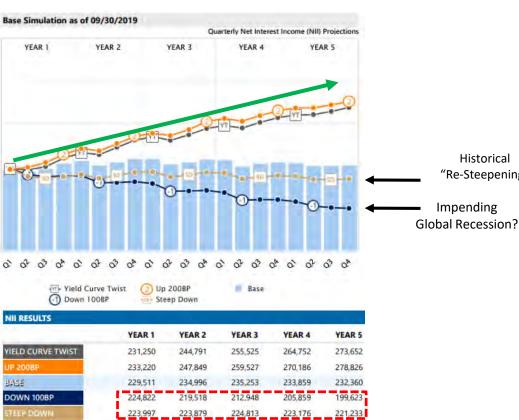
30 Year FR Mortgages Fund With 1 Month Advance

What's "Really" Underlying Funding for Mortgages? See NEXT Slide...





IRR Overview: DCG Client Scenario Analysis: Changes in Yield Curve Slope



Key Points:

- ✓ Asset sensitive and very well positioned for higher interest rates
- ✓ Amount of overall rising rate benefit will depend on (1) pace of rate hikes and (2) shape of market yield curves
- ✓ Falling rates remains the most problematic scenario for NII

Historical

"Re-Steepening"

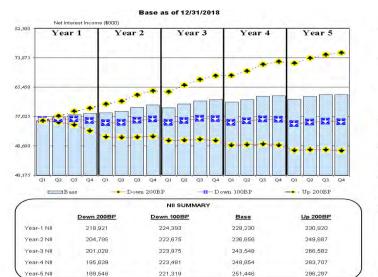
Impending

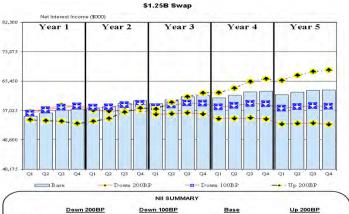
✓ Deposit stability and pricing sensitivity remain important "unknowns"; Revisit MCOF wholesale

Hedge Risk to Falling short rates with Swap 12/2018



(90bps Income Benefit Today or \$10MM)





Year-1 NII	230,838	229,539	226,805	215,753
Year-2 NII	228,170	233,550	235,031	223,062
Year-3 NII	224,403	234,850	241,923	239,957
Year-4 NII	219,014	234,356	247,229	257,082
Year-5 NII	212,921	232,194	249,821	269,662

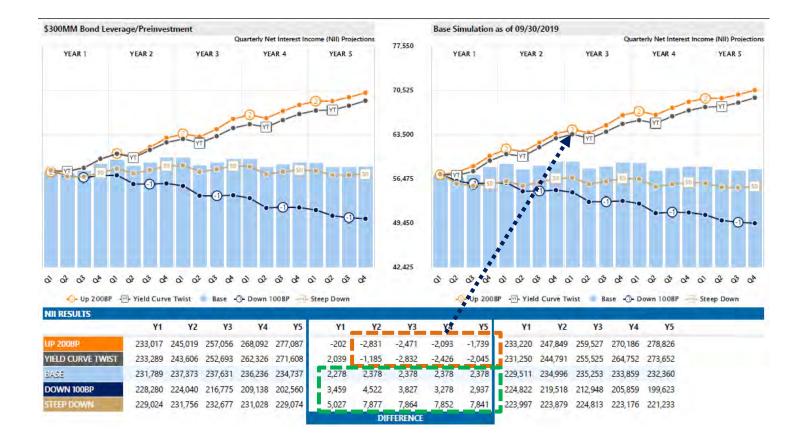
	<u>e</u>	CHANGE / DIFFERENCE II	NRESULTS	
	Down 200BP	Down 100BP	Base	Up 200BP
Year-1 NII	11,917	5,146	-1,825	-15.167
Year-2 NII	23,375	10,875	-1,625	-26,625
Year-3 NII	23,375	10,875	-1,625	-26,625
Year-4 NII	23,375	10,875	-1,625	-26,625
Year-5 NII	23,375	10,875	-1,625	-26,625

5 Year \$1,250B swap: recieve 2,39% and pay 1mth LIBOR.

Reducing Exposure to Falling Rates

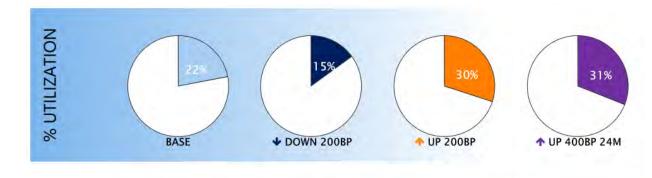


Pre-Invest Investment CF \$300MM

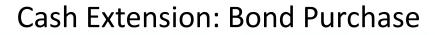


Core Funding Utilization

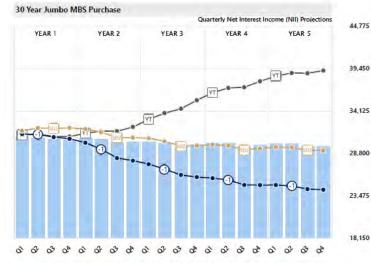




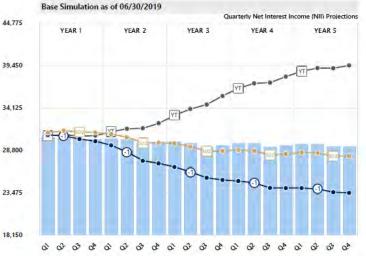
				*	DOWN 200B	P		UP 2008P			JP 400BP 24	м	
ASSETS > 60 MONTHS		448,219		1.000	305,399		1.00	607,161	1.00	626,584			
CORE FUNDING	VOLUME		EXCESS	VOLUME		EXCESS	VOLUME		EXCESS	VOLUME		EXCESS	
EQUITY	307,693		0	307,693		2,294	307,693		0	307,693		0	
OTHER LIABILITIES	55,627		0	55,627		57,921	55,627		0	55,627		0	
DDA	651,143		566,244	651,143		709,064	651,143		407,301	651,143		387,879	
NOW	68,912		635,156	68,912		777,976	68,912		476,214	68,912		456,791	
SAVINGS	929,248		1,564,404	929,248		1,707,224	929,248		1,405,462	929,248		1,386,039	
OTHER DEPOSITS	<u>0</u>		1,564,404	<u>0</u>		1,707,224	<u>0</u>		1,405,462	<u>0</u>	E	1,386,039	
TOTAL CORE FUNDING	2,012,623			2,012,623			2,012,623			2,012,623			
	ASSETS	CORE		ASSETS	CORE		ASSETS	CORE		ASSETS	CORE		
	>60M	FUNDING	% UTIL	>60M	FUNDING	% UTIL	>60M	FUNDING	% UTIL	>60M	FUNDING	% UTI	
JUN-19	448,219	2,012,623	22%	305,399	2,012,623	15%	607,161	2,012,623	30%	626,584	2,012,623	31	
MAR-19	496,302	1,933,148	26%	315,542	1,933,148	16%	630,107	1,933,148	33%	647,799	1,933,148	34	
DEC-18	488,449	1,864,092	26%	304,075	1,864,092	16%	609,361	1,864,092	33%	627,077	1,864,092	34	
SEP-18	546,718	1,881,239	29%	361,780	1,881,239	19%	643,400	1,881,239	34%	659,883	1,881,239	35	
JUN-18	528,989	1,913,950	28%	1.1		11	631,411	1,913,950	33%	651,127	1,913,950	34	







- Yield Curve Twist 👘 Base - O- Down 100BP - Steep Down 200BP



- 🔄 - Yield Curve Twist 🛛 🖉 Base 🕉 Down 100BP 📑 Steep Down 200BP

	¥1	¥2	¥3	¥4	¥5	¥1	Y2	¥3	¥4	¥5	¥1	¥2	¥3	¥4	¥5
VIELD CURVE TWIST	124,129	126,595	136,761	148,320	155,390	1,526	180	-593	-790	-985	122,603	126,415	137,354	149,110	156,375
BASE	123,227	122,116	120,326	119,930	119,629	1,712	1,680	1,680	1,680	1,680	121,515	120,436	118,645	118,250	117,949
DOWN 100BP	123,817	115,469	106,125	100,795	98,077	2,337	2,849	2,919	2,987	3,053	121,480	112,619	103,206	97,808	95,023
STEEP DOWN 200BP	127,502	124,791	120,454	118,323	117,450	3,091	4,027	4,128	4,229	4,330	124,410	120,764	116,326	114,094	113,121
STEEP DOWN 2000F	121,302	124,/31	120,434	110,525	117,450	5,031		FERENCE	1	-,350	12-4,410	120,704	110,520	114,034	115,1

1. Alternative simulation assumes \$200 million of FRB cash is used to purchase 30 year Jumbo MBS (@ 3.02%), immediately.

2. Base simulation assumes \$102.5 million of FRB cash is used to purchase 3-4 year fixed rate CMOs (@ 2.25%) over the remainder of the year.







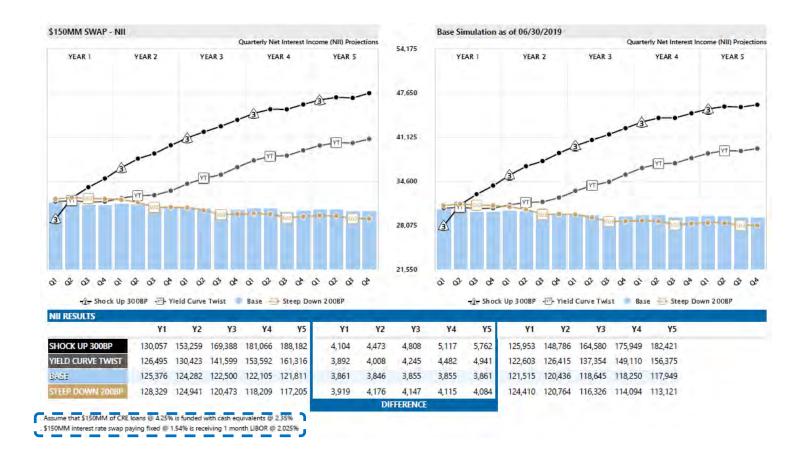
	Y1	¥2	¥3	¥4	Y5	¥1	¥2	¥3	¥4	Y5	¥1	Y2	¥3	¥4	Y5
UP 400BP 24M	106,586	119,098	136,602	149,251	159,723	1,272	-517	-1,047	-660	-334	105,313	119,615	137,649	149,911	160,057
UP 200BP	106,559	117,159	124,365	129,365	133,241	1,272	534	731	906	1,050	105,287	116,625	123,634	128,459	132,192
BASE	104,840	103,943	103,389	103,270	103,497	2,170	2,175	2,175	2,175	2,170	102,670	101,768	101,214	101,095	101,327
DOWN 100BP	102,664	94,938	90,225	87,682	86,199	2,619	2,994	2,894	2,805	2,724	100,046	91,944	87,331	84,877	83,475
STEEP DOWN	103,220	97,538	95,261	94,107	93,548	3,232	3,964	3,950	3,939	3,928	99,988	93,574	91,311	90,168	89,620
							DI	FFERENCE							

In the first month of the simulation short-term cash equivalents @ 1,80% are being utilized to fund \$100MM of 10/25 CRE growth @ 4.00%.



10 Year Comm. RE Loans 4.25%, 5 Yr. Swap Funding

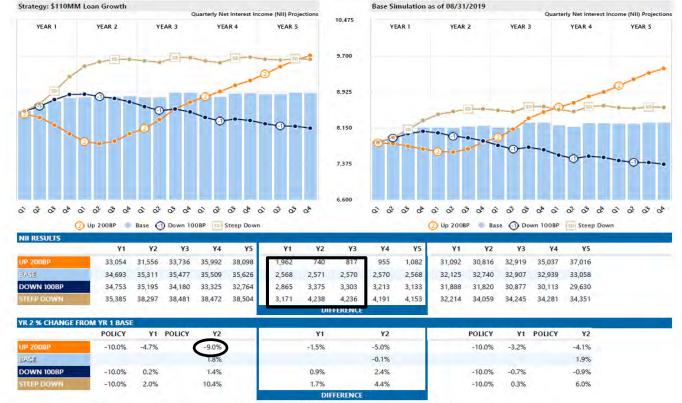
Despite Asset Sensitive, Won't Book FR Deals; EVE Concerns



Strategy Discussion

\$110MM Loan Growth Through 2020





1. Alternative simulation assumes \$110MM of loan growth (30% in 30Y Fixed Residential @ 3.75% and 70% in CRE 5/S Adj. @ 4.50%) is funded with a mix of cash, deposit inflows and borrowings.



Mirror, Mirror on the Wall, What's the Smartest Decision of All?

- 1. Wholesale Funding least costly funding at the margin and reliable (dividend impact)
- 2. Depositors NOT always Relationships, high cost form of borrowing?
- Provides opportunities to increase earnings, provide added value to customers/members, and ultimately increases value of franchise and attain mission of your organization
- 4. Lack of spread does not mean lack of opportunity to better manage risk and take advantage of opportunities; consider MCOF and functional cost vs. deposits (Hint: best opportunities when spread tightest)
- 5. Negative Regulatory Attitude by "some" but not agency wide; must defend your position and have policies that make sense and support decision making
- 6. Excess Cash can be costly and Risky! put to better use and use FHLB as "Just in Time" inventory funds management
- 7. Risk Management: Derivatives are a valuable tool used in combination with advances that should not be ignored!



All Roads...Lead to ALCO







We Can't Go Back, But...

YOUR FUTURE HASN'T BEEN WRITTEN YET. NO ONE'S HAS. YOUR FUTURE IS WHATEVER YOU MAKE IT. SO MAKE IT A GOOD ONE.

> Doc Brown Back to the Future



