Financial Performance Report Ratio and Formula Guide

September 30, 2022

Version 3.1

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Ratio Calculations

The Key Ratios, Supplemental Ratios and Historical Ratios sections describe the ratios on those pages of the FPR. Unless otherwise stated, all ratios are rounded.

Annualization

Those ratios that are annualized are specifically identified in this guide as such. (December ratios are not annualized, because they reflect an annual period.)

To annualize a ratio, multiply the result of the formula by the appropriate annualization factor for each quarter:

Quarter End	Annualization Factor
March	4
June	2
September	1.333

Ratio Components

Commonly used components of some FPR ratios are defined below to simplify the formulas described in the Key Ratios, Supplemental Ratios and Historical Ratios sections of this guide.

Average Assets

Total Assets for the current period + Total Assets for the prior year-end, ÷ two.

Average Investments

Total Investments, Cash on Deposit, and Cash Equivalents for the current period + Total Investments, Cash on Deposit, and Cash Equivalents for the prior year-end, ÷ two.

Average Loans

Total Loans for the current period + Total Loans for the prior year-end, ÷ two.

Borrowings

The total of Draws Against Lines of Credit, Other Notes, Promissory Notes, and Interest Payable, Borrowing Repurchase Transactions, Subordinated Debt and Subordinated Debt included in Net Worth, — Borrowing Repurchase Transactions Placed in Investments for Purposes of Positive Arbitrage.

> For low-income designated credit unions only, borrowings also include Uninsured Secondary Capital.

Cost of Funds

The total of Dividends on Shares, Interest on Deposits, and Interest on Borrowed Money.

Estimated Losses

Estimated losses include the allowance for loan and lease losses, the allowance for credit losses, and the appropriation for non-conforming investments (this account is used by state-chartered federally insured credit unions for investments not authorized by NCUA).

> In conformity with ASC 320 and 321, investments classified as Equity Securities, Available-for-Sale Debt Securities, or Trading Debt Securities are properly reported at fair value.

Full-Time Equivalent Employees

Number of Part-time Employees ÷ two + number of Full-time Employees.

Fixed Rate Real Estate Loans

Total fixed rate first mortgage loans (includes fixed rate first mortgages greater than 15 years, fixed rate first mortgages 15 years or less, balloon/hybrid first mortgages greater than 5 years, and other fixed rate first mortgages) + other fixed rate real estate loans (closed-end fixed rate and open-end fixed rate).

Gross Income

Total of Interest Income, Fee Income, and Other Operating Income.

Net Worth

The total of the Undivided Earnings, Appropriation for Non-Conforming Investments (state-chartered credit unions only), Other Reserves (Appropriations of Undivided Earnings), and Adjusted Retained Earnings acquired through Business Combinations.

For low-income designated credit unions only, Net Worth also includes Subordinated Debt and Grandfathered Secondary Capital in accordance with the Net Worth definition in §702.2.

In all FPRs, other than the December cycle, the undistributed Net Income is included in the calculation of net worth for credit unions that did not close their books. Credit unions must close out net income into Undivided Earnings for the December reporting period.

Operating Expenses

Total Non-Interest Expense (this does not include the Provision for Loan and Lease Losses or Cost of Funds).

Shares

The total of all shares and deposits.

Key Ratios

Key ratios include Capital Adequacy ratios, Asset Quality ratios, Management ratios, Earnings ratios, and Asset Liability Management ratios.

Capital Adequacy Ratios

Net Worth / Total Assets

Net Worth ÷ total assets.

Before 6/30/2020:

$$\frac{997}{010} \, x \, 100$$

On 6/30/2020 and after:

$$\frac{997}{\mathrm{NW0010}} \, x \, 100$$

The Net Worth ratio is rounded to two decimal places (for example, 6.997 would be rounded to 7.00%)

Net Worth / PCA Opt. Total Assets (if applicable)

Net Worth ÷ alternative asset election or total assets.

If a credit union selects one of the three optional total asset elections (average of daily assets over the calendar quarter, average of the three month-end balances over the calendar quarter, or average of the current and three preceding calendar quarter-end balances), the Net Worth ratio will be computed using the alternative asset election as the denominator instead of total assets. If a credit union does not select an optional total assets election, total assets are used and the results are the same as the NET WORTH/TOTAL ASSETS ratio above.

If 010A or 010B or 010C is greater than zero:

$$\frac{997}{(010A + 010B + 010C)}\ x\ 100$$

If 010A or 010B or 010C is less than zero before 6/30/2020:

$$\frac{997}{010}\ x\ 100$$

If 010A or 010B or 010C is less than zero on 6/30/2020 and after:

$$\frac{997}{\text{NW0010}}\ x\ 100$$

This ratio is rounded to two decimal places (for example, 6.997 would be rounded to 7.00%)

Net Worth + ALLL or ACL / Total Assets + ALLL or ACL

Net worth + the allowance for loan and lease losses or the allowance for credit losses on loans ÷ total assets + the allowance for loan and lease losses or the allowance for credit losses on loans.

From 12/31/2000 to 3/31/2019:

$$\frac{(997 + 179)}{(010 + 719)}\ x\ 100$$

On 3/31/2019 and after:

$$\frac{(997 + \text{AS0048} + 719)}{(010 + \text{AS0048} + 719)}\ x\ 100$$

Risk-Based Capital Ratio

This ratio only applies to complex credit unions (as defined in NCUA regulations §702.103) that did not opt into, or are not eligible for, the Complex Credit Union Leverage Ratio (CCULR) framework. This formula is also found in account RB0172.

$$\frac{\text{RB0170}}{\text{RB0171}}\,x\,100$$

GAAP Equity / Total Assets

The sum of undivided earnings plus regular reserves + the appropriation for non-conforming investments (state credit unions) + other reserves plus equity acquired in a merger + miscellaneous equity + other comprehensive income + accumulated unrealized net gains (losses) on cash flow hedges + accumulated unrealized gains (losses) on available-for-sale debt securities + accumulated unrealized losses for OTTI (due to other factors) on HTM Debt Securities + net income (unless this amount is already included in Undivided Earnings) ÷total assets.

From 9/30/2009 to 12/31/2018:

$$\frac{(940 + 931 + 668 + 658 + 658\text{A} + 996 + 945\text{B} + 945\text{A} + 945 + 945\text{C} + 602)}{010}\,x\,100$$

From 3/31/2019 to 12/31/2021:

$$\frac{\begin{pmatrix}940 + 931 + 668 + 658 + 658\text{A} + 996 + \\ 945\text{B} + 945\text{A} + \text{EQ0009} + 945\text{C} + 602\end{pmatrix}}{010}\,x\,100$$

On 3/31/2022 and after:

$$\frac{\begin{pmatrix}940 + 668 + 658 + 658\text{A} + 996 + \\ 945\text{B} + 945\text{A} + \text{EQ0009} + 945\text{C} + 602\end{pmatrix}}{010}\,x\,100$$

Loss Coverage Ratio

The amount of loans delinquent 30-59 days + the total amount of reportable delinquent loans + the amount of loans held for sale delinquent 30-59 days + the total amount of reportable delinquent loans held for sale + negative shares included in all other unsecured loans/lines of credit + the total amount of foreclosed and repossessed assets + the total amount of troubled debt restructured (TDR) loans outstanding by category – the amount of TDR loans secured by first mortgages 30-59 days delinquent – the total amount of reportable delinquent TDR loans secured for first mortgages – the amount of TDR loans secured by other real estate/LOCs 30-59 days delinquent – the total amount of reportable delinquent TDR loans secured by other real estate/LOCs – the amount of TDR consumer loans *not* secured by real estate 30-59 days delinquent – the total amount of reportable delinquent TDR consumer loans *not* secured by real estate – the amount of TDR commercial loans *not* secured by real estate 30-59 days delinquent – the total amount of reportable delinquent TDR commercial loans *not* secured by real estate ÷ total net worth + the allowance for loan and lease losses + the allowance for credit losses.

From 3/31/2004 to 6/30/2008:

$$\frac{(020\text{B} + 041\text{B} + 798\text{A})}{(997 + 719)}\ x\ 100$$

From 9/30/2008 to 12/31/2009:

$$\frac{(020\text{B} + 041\text{B} + 798\text{A} + 0.5 \text{ x } (1001\text{A} + 1001\text{B}))}{(997 + 719)}\ x\ 100$$

From 3/31/2010 to 9/30/2012:

$$\frac{(020\text{B} + 041\text{B} + 798\text{A} + 0.5 \text{ x } (1001\text{A} + 1001\text{B} + 1001\text{D} + 1001\text{E}))}{(997 + 719)}\ x\ 100$$

From 12/31/2012 to 3/31/2013:

$$\frac{(020\text{B} + 041\text{B} + 798\text{A} + 1001\text{F} - 020\text{U} - 041\text{U} - 020\text{V} - 041\text{V} - 020\text{X} - 041\text{X} - 020\text{Y} - 041\text{Y})}{(997 + 719)}\ x\ 100$$

From 6/30/2013 to 6/30/2017:

$$\frac{(020\text{B} + 041\text{B} + 071\text{F} + 071\text{J} + 644 + 798\text{A} + 1001\text{F} - 020\text{U} - 041\text{U} - 020\text{V} - 041\text{V} - 020\text{X} - 041\text{X} - 020\text{Y} - 041\text{Y})}{(997 + 719)}\ x\ 100$$

From 9/30/2017 to 12/31/2018:

$$\frac{(020\text{B} + 041\text{B} + 071\text{F} + 071\text{J} + 644 + 798\text{A} + 1001\text{F} - 020\text{U} - 041\text{U} - 020\text{V} - 041\text{V} - 020\text{X} - 041\text{X} - 020\text{Y1} - 041\text{Y1})}{(997 + 719)}\ x\ 100$$

From 3/31/2019 to 12/31/2021:

$$\frac{(020\text{B} + 041\text{B} + 071\text{F} + 071\text{J} + 644 + 798\text{A} + 1001\text{F} - 020\text{U} - 041\text{U} - 020\text{V} - 041\text{V} - 020\text{X} - 041\text{X} - 020\text{Y1} - 041\text{Y1})}{(997 + 719 + \text{AS0048})}\ x\ 100$$

On 3/31/2022 and after:

$$\frac{(020\text{B} + 041\text{B} + 644 + 798\text{A} + 1001\text{F})}{(997 + 719 + \text{AS}0048)} \ x\ 100$$

Asset Quality Ratios

Delinquent Loans / Total Loans

The amount of loans 60 days or more delinquent ÷ total loans.

$$\frac{041\text{B}}{025\text{B}} \ x\ 100$$

Delinquent Loans / Net Worth

The amount of loans 60 days or more delinquent ÷ net worth.

$$\frac{041\text{B}}{997} \ x\ 100$$

Rolling 12-Month Net Charge-Offs

The amount of year-to-date charge offs for the applicable cycle – the amount of year-to-date recoveries for the applicable cycle + the amount of year-to-date charge offs for the prior year end – the amount of year-to-date recoveries for the prior year end – the amount of year-to-date charge offs for the prior year quarter end – the amount of year-to-date recoveries for the prior year quarter end ÷ total loans and leases for the applicable cycle + total loans and leases for the prior year quarter end ÷ two.

$$\frac{(((550 \text{ Applicable cycle (AC)} - 551\text{(AC)}) + (550 \text{ Prior year end (PYE)} - 551\text{(PYE)}) - (550 \text{ Prior year quarter end (PYQE)} - 551\text{(PYQE)}))}{\frac{(025\text{B(AC)} + 025\text{B(PYQE)})}{2}} \ x\ 100$$

This ratio is based on net-charge offs over the last 12 months.

Delinquent Loans plus Net Charge-Offs / Average Loans

Total amount of reportable delinquent loans + the amount of year-to-date charge-offs for the applicable cycle – the amount of year-to-date recoveries for the applicable cycle + the amount of year-to-date charge-offs for the prior year end – the amount of year-to-date recoveries for the prior year end – the amount of year-to-date charge-offs for the prior year quarter end – the amount of year-to-date recoveries for the prior year quarter end ÷ total loans and leases for the applicable cycle + total loans and leases for the prior year quarter end ÷ two.

$$\frac{\begin{array}{c}(041\mathrm{B} + ((550(\mathrm{AC}) - 551(\mathrm{AC})) + (550(\mathrm{PYE}) - 551(\mathrm{PYE})) \\ -(550(\mathrm{PYQE}) - 551(\mathrm{PYQE})))\end{array}}{\frac{(025\mathrm{B}(\mathrm{AC}) + 025\mathrm{B}(\mathrm{PYQE}))}{2}} x\ 100$$

This ratio is based on net charge-offs over the last 12 months.

Other Non-Performing Assets / Total Assets

The total amount of foreclosed and repossessed assets ÷ total assets.

$$\frac{798\mathrm{A}}{010} x\ 100$$

Management Ratios (Annualized)

The basic formula for all Management ratios is:

$$\frac{\text{Current Period } (***) \text{ minus Prior Year End } (***)}{\text{Prior Year End } (***)}$$

Where *(***)* is the growth item calculated (such as shares or loans).

Net Worth Growth (Annualized)

This ratio measures Net Worth growth. To compute the ratio, use total net worth in the basic formula.

> The calculation of this ratio requires using the absolute value of the denominator.

Before 3/31/2001:

$$\frac{\begin{array}{c}((658(\mathrm{AC}) + 668(\mathrm{AC}) + 925(\mathrm{AC}) + 931(\mathrm{AC}) + 940(\mathrm{AC}) + 602(\mathrm{AC})) - \\ (658(\mathrm{PYE}) + 668(\mathrm{PYE}) + 925(\mathrm{PYE}) + 931(\mathrm{PYE}) + 940(\mathrm{PYE})))\end{array}}{\mathrm{ABS}(658(\mathrm{PYE}) + 668(\mathrm{PYE}) + 925(\mathrm{PYE}) + 931(\mathrm{PYE}) + 940(\mathrm{PYE}))} x\ 100$$

On 3/31/2001 and after:

$$\frac{(997(\mathrm{AC})\ - 997\ (\mathrm{PYE}))}{\mathrm{ABS}\ (997(\mathrm{PYE})} \; x\ 100$$

Share Growth (Annualized)

This ratio measures share growth. To compute the ratio, use total shares in the basic formula.

$$\frac{(018(\mathrm{AC}) - 018(\mathrm{PYE}))}{018(\mathrm{PYE})} \; x\ 100$$

Loan Growth (Annualized)

This ratio measures loan growth. To compute it, use total loans in the basic formula.

$$\frac{(025\mathrm{B}(\mathrm{AC}) - 025\mathrm{B}(\mathrm{PYE}))}{025\mathrm{B}(\mathrm{PYE})} \; x\ 100$$

Asset Growth (Annualized)

This ratio measures asset growth. To compute the ratio, use total assets in the basic formula.

$$\frac{(010(\mathrm{AC}) - 010(\mathrm{PYE}))}{010(\mathrm{PYE})} \; x\ 100$$

Investment Growth (Annualized)

This ratio measures investment growth. To compute the ratio, use total investments (excluding reverse repurchase transactions placed in investments for positive arbitrage) in the basic formula. Beginning December 2000, this ratio indicates growth in the sum of investments, cash on deposit, and cash equivalents.

Before 6/30/2006:

$$\frac{(799(\mathrm{AC}) - 781(\mathrm{AC}))\ -\ (799(\mathrm{PYE}) - 781(\mathrm{PYE}))}{799(\mathrm{PYE}) - 781(\mathrm{PYE})} \; x\ 100$$

From 6/30/2006 to 12/31/2021:

$$\frac{\begin{gathered}((799\mathrm{I}(\mathrm{AC}) + 730\mathrm{B}(\mathrm{AC}) + 730\mathrm{C}(\mathrm{AC}) - 781(\mathrm{AC})) - \\ (799\mathrm{I}(\mathrm{PYE}) + 730\mathrm{B}(\mathrm{PYE}) + 730\mathrm{C}(\mathrm{PYE}) - 781(\mathrm{PYE})))\end{gathered}}{(799\mathrm{I}(\mathrm{PYE}) + 730\mathrm{B}(\mathrm{PYE}) + 730\mathrm{C}(\mathrm{PYE}) - 781(\mathrm{PYE}))} \; \mathrm{x}\ 100$$

On 3/31/2022 and after:

$$\frac{((\mathrm{NV0158(AC)} + \mathrm{730B(AC)}) - (\mathrm{799I(PYE)} + \mathrm{730B(PYE)} + \mathrm{730C(PYE)} - \mathrm{781(PYE)}))}{(\mathrm{799I(PYE)} + \mathrm{730B(PYE)} + \mathrm{730C(PYE)} - \mathrm{781(PYE)})} \mathrm{x}\ 100$$

Membership Growth (Annualized)

This ratio measures the growth in current members. To compute the ratio, use total current members in the basic formula and annualize as appropriate.

$$\frac{\mathrm{083(AC)}\ - \mathrm{083(PYE)}}{\mathrm{083(PYE)}}\ x\ 100$$

Earnings Ratios (Annualized)

Net Income / Average Assets (ROAA)

Net Income (Loss) ÷ average assets, annualized as appropriate.

$$\frac{661A}{(010(AC)\ +\ 010(PYE))/2}\ x\ 100$$

Net Income – Extraordinary Gains (Losses) / Average Assets (Annualized)

Net Income (Loss) – gain (loss) on equity securities – gain (loss) on other securities – gain (loss) on non-trading derivatives – gain (loss) on disposition of fixed assets – gain from bargain purchase (merger).

From 12/31/2015 to 12/31/2018:

$$\frac{(\mathrm{661A} - 420 - 421 - 430 - 431)}{((\mathrm{010(AC)} + \mathrm{010(PYE)})/2))}\ x\ 100$$

From 3/31/2019 to 12/31/2020:

$$\frac{(\mathrm{661A} - \mathrm{IS0021} - \mathrm{IS0022} - 421 - 430 - 431)}{((\mathrm{010(AC)} + \mathrm{010(PYE)})/2))}\ x\ 100$$

From 3/31/2021 to 12/31/2021:

$$\frac{(\mathrm{661A} - \mathrm{IS0046} - \mathrm{IS0047} - 421 - 430 - 431)}{((\mathrm{010(AC)} + \mathrm{010(PYE)})/2))}\ x\ 100$$

On 3/31/2022 and after:

$$\frac{(661\text{A} - \text{IS}0046 - \text{IS}0047 - 421 - 430 - 431 - \text{IS}0029 - \text{IS}0030)}{((010(\text{AC}) + 010(\text{PYE}))/2))} \; x\ 100$$

Operating Expenses / Average Assets (Annualized)

Total operating expenses ÷ average assets. Operating expenses do not include Provision for Loan and Lease Losses expenses.

Before 3/31/2009:

$$\frac{671}{((010(\text{AC}) \ + 010(\text{PYE}))/2)} \; x\ 100$$

From 3/31/2009 to 9/30/2010:

$$\frac{(671 + 311)}{((010(\text{AC}) \ + 010(\text{PYE}))/2)} \; x\ 100$$

On 12/31/2010 and after:

$$\frac{671}{((010(\text{AC}) \ + 010(\text{PYE}))/2)} \; x\ 100$$

Provision for Loan and Lease Losses (PLLL) or Credit Loss Expense / Average Assets (Annualized)

Provision for Loan and Lease Losses or Credit Loss Expense ÷ average assets.

Before 3/31/2019:

$$\frac{300}{((010(\text{AC}) \ + \ 010(\text{PYE}))/2))} \; x\ 100$$

On 3/31/2019 and after:

$$\frac{(300 + \text{IS}0011)}{((010(\text{AC}) + 010(\text{PYE}))/2)} \; x\ 100$$

Asset Liability Management Ratios

Est. NEV Tool Post Shock Ratio

This ratio applies to credit unions with less than $100 million in total assets.

The NCUA's Estimated Net Economic Value Tool (ENT) calculates a credit union's Net Economic Value (NEV) for base case and +300 basis point scenarios each quarter based on Call Report data using predefined sensitivities for assets and contractual-maturity liabilities. It uses standardized premium values for non-maturity shares of one percent in the base case (book to base) and four percent in a +300 basis point shock scenario (base to shock).

The ENT also assigns a risk classification of low, moderate, high, or extreme for both the post-shock NEV ratio and post-shock NEV sensitivity using predefined risk levels, concluding with a final risk level using the worst of the two measurements. NCUA expects to review the ENT scope and parameters periodically to address changes in market conditions and potential shifts in credit union risk profiles.

For more information on the NCUA's interest rate risk review procedures and an ENT template that includes the current predefined sensitivities, see NCUA's Letter to Credit Unions 16-CU-08, Revised Interest Rate Risk Supervision (October 2016). The NCUA's ENT template, which includes the predefined sensitivities, is also available online. (Click on "Asset Valuation Workbook," then open the zip file and select "ENT worksheet.")

Est. NEV Tool Post Shock sensitivity

This ratio applies to credit unions with less than $100 million in total assets.

The ENT calculates a credit union's NEV for base case and +300 basis point scenarios each quarter based on Call Report data using predefined sensitivities for assets and contractual-maturity liabilities. It uses standardized premium values for non-maturity shares of one percent in the base case (book to base) and four percent in a +300 basis point shock scenario (base to shock). ENT also assigns a risk classification of low, moderate, high, or extreme for both the post-shock NEV ratio and post-shock NEV sensitivity using predefined risk levels, concluding with a final risk level using the worst of the two measurements. NCUA expects to review the ENT scope and parameters periodically to address changes in market conditions and potential shifts in credit union risk profiles.

For more information on the NCUA's interest rate risk review procedures and an ENT template that includes the current predefined sensitivities, see NCUA's Letter to Credit Unions 16-CU-08, Revised Interest Rate Risk Supervision (October 2016). The NCUA's ENT template, which includes the predefined sensitivities, is also available online. (Click on "Asset Valuation Workbook," then open the zip file and select "ENT worksheet.")

Total Loans / Total Assets.

Total loans ÷ total assets.

$$\frac{025B}{010} x\ 100$$

Cash and Short-Term Investments / Assets.

Total of cash on hand, cash on deposit, and cash equivalents, + investments with less than one-year remaining maturity ÷ total assets.

Before 6/30/2006:

$$\frac{(730A + 799A)}{010} \, x\, 100$$

From 6/30/2006 to 12/31/2021:

$$\frac{(730A\ +\ 730B\ +\ 730C\ +\ 799A1)}{010} \, x\, 100$$

On 3/31/2022 and after:

$$\frac{(730A\ +\ 730B\ +\ NV0153)}{010} \, x\, 100$$

This ratio relies on the maturity distribution of investments reported per 5300 Call Report instructions located on the CUOnline webpage. The maturity distribution may be based on the repricing interval and not the actual maturity of the investment.

Supplemental Ratios

Supplemental ratios include Real Estate Loan Delinquency ratios, Miscellaneous Loan Loss ratios, Specialized Lending ratios, Real Estate Lending ratios, and Miscellaneous ratios.

Allowance for Loan and Lease Losses or Allowance for Credit Losses / Delinquent Loans

Allowance for loan and lease losses + allowance for credit losses ÷ total loans delinquent 60 days or more.

From 3/31/2004 to 12/31/2018:

$$\frac{719}{041B} \, x\, 100$$

On 3/31/2019 and after:

$$\frac{(719 + AS0048)}{041B} \, x\, 100$$

Real Estate Loan Delinquency Ratios

Total Real Estate Loans Delinquent ≥30 Days / Total Real Estate Loans

Total real estate loans and lines of credit delinquent 30 days or more ÷ total real estate loans.

Before 6/30/2006:

$$\frac{(713 + 714 + 715 + 716)}{710} \; x\,100$$

From 6/30/2006 to 12/31/2021

$$\frac{(713A + 714A + 715A + 716A + 751 + 771 + 755 + 775)}{710} \; x\,100$$

On 3/31/2022 and after:

$$\frac{(\mathrm{DL0057} + \mathrm{DL0064} + \mathrm{DL0071} + \mathrm{DL0062} + \mathrm{DL0069} + \mathrm{DL0076})}{\mathrm{RL0047}} \; x\,100$$

Total Real Estate Loans Delinquent ≥ 60 Days / Total Real Estate Loans

Total real estate loans and lines of credit delinquent 60 days or more ÷ total real estate loans.

Before 6/30/2006:

$$\frac{(752 + 753 + 754 + 756 + 757 + 758 + 772 + 773 + 774 + 776 + 777 + 778)}{710} \; x\,100$$

From 6/30/2006 to 12/31/2021:

$$\frac{(713A + 714A + 715A + 716A)}{710} \; x\,100$$

On 3/31/2022 and after:

$$\frac{(\mathrm{DL0062} + \mathrm{DL0069} + \mathrm{DL0076})}{\mathrm{RL0047}} \; x\,100$$

Specialized Lending Ratios

Indirect Loans Outstanding / Total Loans

Indirect loans outstanding ÷ total loans.

On 3/31/2004 and after:

$$\frac{618A}{025B} \text{ x } 100$$

Participation Loans Outstanding / Total Loans

Participation loans outstanding ÷ total loans.

From 3/31/2003 to 12/31/2008:

$$\frac{619}{025B} \text{ x } 100$$

From 3/31/2009 to 12/31/2021:

$$\frac{(619B\ +\ 691E)}{025B} \text{ x } 100$$

On 3/31/2022 and after:

$$\frac{(619L\ +\ 691N)}{025B} \text{ x } 100$$

Participation Loans Purchased YTD / Total Loans Granted YTD

Participation loans purchased year-to-date ÷ total loans granted year-to-date.

On 3/31/2003 and after:

$$\frac{690}{031B} \text{ x } 100$$

Participation Loans Sold YTD / Total Assets (Annualized)

Participation loans sold year-to-date ÷ total assets.

On 3/31/2003 and after:

$$\frac{691}{010} \text{ x } 100$$

Total Commercial Loans / Total Assets (known as Total Business Loans (NMBLB) less Unfunded Commitments / Assets before 9/30/2017)

Total commercial loan balances ÷ total assets.

For cycles before September 2017, this ratio was calculated using the definition of Net Member Business Loans.

Before 3/31/2004:

$$\frac{400}{010} \text{ x } 100$$

From 3/31/2004 to 12/31/2008:

$$\frac{(400A + 400B - 814 - 814A)}{010} \text{ x } 100$$

From 3/31/2009 to 12/31/2010:

$$\frac{(400A + 400B - 814 - 814A - 814A1)}{010} \text{ x } 100$$

From 3/31/2011 to 6/30/2017:

$$\frac{(400T - 814E)}{010} \text{ x } 100$$

On 9/30/2017 and after:

$$\frac{400T1}{010} \text{ x } 100$$

Loans Purchased From Other Financial Institutions and Other Sources YTD / Loans Granted YTD

Loans purchased in full from other financial institutions and other sources year-to-date ÷ loans granted year-to-date.

Before 12/31/2010:

$$\frac{615}{031B} \text{ x } 100$$

From 3/31/2011 to 6/30/2021:

$$\frac{(615 + 613)}{031B} \text{ x } 100$$

On 9/30/2021 and after:

$$\frac{(SL0015\ +\ SL0013)}{031B} \text{ x } 100$$

Real Estate Lending Ratios

Total Fixed Rate Real Estate / Total Assets

Total fixed rate real estate loans ÷ total assets.

Before 3/31/2004:

$$\frac{(704\ +\ 706\ +709)}{010} \text{ x } 100$$

From 3/31/2004 to 12/31/2007:

$$\frac{(704A + 704B + 704C + 704E + 706 + 708B + 709)}{010} \text{ x } 100$$

From 3/31/2008 to 12/31/2021:

$$\frac{(704A + 704B + 704C + 704E + 706 + 708B)}{010} \text{ x } 100$$

On 3/31/2022 and after:

$$\frac{(RL0002 + RL0005 + RL0008 + RL0019 + RL0025 + RL0033 + RL0039)}{010} \text{ x } 100$$

Total Fixed Rate Real Estate / Total Loans

Total fixed rate real estate loans ÷ total loans.

Before 3/31/2004:

$$\frac{(704\ +\ 706\ +709)}{025B} \text{ x } 100$$

From 3/31/2004 to 12/31/2007:

$$\frac{(704A + 704B + 704C + 704E + 706 + 708B + 709)}{025B} \text{ x } 100$$

From 3/31/2008 to 12/31/2021:

$$\frac{(704A + 704B + 704C + 704E + 706 + 708B)}{025B} \text{ x } 100$$

On 3/31/2022 and after:

$$\frac{(RL0002 + RL0005 + RL0008 + RL0019 + RL0025 + RL0033 + RL0039)}{025B} \text{ x } 100$$

Total Fixed Rate Real Estate Granted YTD / Total Loans Granted YTD

Total fixed rate real estate loans granted year-to-date ÷ total loans granted year-to-date.

Before 3/31/2004:

$$\frac{(720 + 722 + 725)}{031B} \text{ x } 100$$

From 3/31/2004 to 12/31/2007:

$$\frac{(720A + 720B + 720C + 720E + 722 + 724B + 725)}{031B} \text{ x } 100$$

From 3/31/2008 to 12/31/2021:

$$\frac{(720A + 720B + 720C + 720E + 722 + 724B)}{031B} \text{ x } 100$$

On 3/31/2022 and after:

$$\frac{(RL0003 + RL0006 + RL0009 + RL0020 + RL0026 + RL0034 + RL0040)}{031B} \text{ x } 100$$

First Mortgage Real Estate Loans Sold YTD / First Mortgage Real Estate Loans Granted YTD

Total first mortgage loans sold in the secondary market year-to-date ÷ total first mortgage loans granted year-to-date.

Before 3/31/2004:

$$\frac{736}{(720 + 721)} \text{ x } 100$$

From 3/31/2004 to 12/31/2021:

$$\frac{736}{(720A + 720B + 720C + 720D + 720E + 721A + 721B)} \text{ x } 100$$

On 3/31/2022 and after:

$$\frac{736}{(RL0003 + RL0006 + RL0009 + RL0012 + RL0015)} \text{ x } 100$$

Interest Only & Payment Option First & Other Re Loans / Total Assets

Total interest only and payment option first and other real estate loans ÷ total assets.

From 3/31/2009 to 12/31/2021:

$$\frac{(704C1 + 704D2)}{010} \text{ x } 100$$

On 3/31/2022 and after:

$$\frac{(704C1)}{010} \text{ x } 100$$

Interest Only & Payment Option First & Other Real Estate Loans / Total Net Worth

Total interest only and payment option first and other real estate loans ÷ total net worth.

From 3/31/2009 to 12/31/2021:

$$\frac{(704C1 + 704D2)}{997} \text{ x } 100$$

On 3/31/2022 and after:

$$\frac{(704C1)}{997} \text{ x } 100$$

Miscellaneous Ratios

Mortgage Servicing Assets / Net Worth

Mortgage Servicing Assets ÷ total net worth.

On 3/31/2003 and after:

$$\frac{779}{997}\ x\ 100$$

Unused Commitments / Cash & Short-Term Investments

Total unused commitments ÷ total cash on hand, cash on deposit, cash equivalents, and short-term investments. Unused commitments include unfunded commitments for business loans + unfunded commitments for all remaining loans (non-business loans). Short-term investments are those with maturities less than one year.

Before 3/31/2005:

$$\frac{(814 + 814\text{A} + 811 + 812 + 813 + 815 + 816)}{(730\text{A} + 799\text{A})}\ \text{x}\ 100$$

From 3/31/2005 to 3/31/2006:

$$\frac{(814 + 814\text{A} + 811 + 812 + 813 + 815 + 816 + 822)}{(730\text{A} + 799\text{A})}\ x\ 100$$

From 6/30/2006 to 12/31/2008:

$$\frac{(814 + 814\text{A} + 811 + 812 + 813 + 815 + 816 + 822)}{(730\text{A} + 730\text{B} + 730\text{C} + 799\text{A1})}\ x\ 100$$

From 3/31/2009 to 9/30/2009:

$$\frac{(814 + 814\text{A} + 814\text{A1} + 811 + 811\text{A} + 812 + 813 + 815 + 816 + 822)}{(730\text{A} + 730\text{B} + 730\text{C} + 799\text{A1})}\ x\ 100$$

From 12/31/2009:

$$\frac{\begin{matrix}(814 + 814\text{A} + 814\text{A1} + 811 + 811\text{A} + 811\text{B} + \\ 811\text{C} + 812 + 813 + 815 + 816 + 822)\end{matrix}}{(730\text{A} + 730\text{B} + 730\text{C} + 799\text{A1})}\ x\ 100$$

From 3/31/2010 to 12/31/2021:

$$\frac{816\text{A}}{(730\text{A} + 730\text{B} + 730\text{C} + 799\text{A1})}\ x\ 100$$

On 3/31/2022 and after:

$$\frac{816\mathrm{A}}{(730\mathrm{A} + 730\mathrm{B} + \mathrm{NV0153})} \, x \, 100$$

Short Term Liabilities / Total Shares and Deposits plus Borrowings

Total borrowings less than one year + non-core shares less than one year (share certificates, IRA/Keogh, all other shares, and nonmember deposits) ÷ total shares and deposits + total borrowings – borrowing repurchase transactions placed in investments for the purposes of positive arbitrage.

On 3/31/2005 and after:

$$\frac{(908\mathrm{A} + 906\mathrm{A} + 630\mathrm{A} + 880\mathrm{A} + 058\mathrm{A} + 867\mathrm{A} + 011\mathrm{A} + 883\mathrm{A} + 911)}{(018 + 860\mathrm{C} - 781)} \, x \, 100$$

Historical Ratios

Historical ratios include Capital Adequacy ratios, Asset Quality ratios, Earnings ratios, Asset/Liability Management ratios, and Productivity ratios.

Capital Adequacy Ratios

Effective Date of Adoption of ASC Topic 326 – Financial Instruments – Credit Losses (CECL)

The date the credit union adopted ASC Topic 326.

$$\mathrm{NW0001}$$

Net Worth / Total Assets Excluding One Time Adjustment to Undivided Earnings for the Adoption of ASC Topic 326

Net Worth + or – the one-time adjustment to undivided earnings for the adoption of CECL ÷ total assets. The Financial Accounting Standards Board allowed an adjustment to retained earnings for the adoption of ASC Topic 326. This ratio is truncated to two decimal places (for example, 6.997 would be truncated to 6.99%.)

From 3/31/2019 to 12/31/2019

$$\frac{(997 + \text{NW0002})}{010}\ x\ 100$$

On 3/31/2020 and after:

$$\frac{(997 + \text{NW0002})}{\text{NW0010}}\ x\ 100$$

Solvency Evaluation (Estimated)

Total assets – liabilities, uninsured secondary capital, and appropriation for non-conforming investments ÷ total shares.

From 12/31/2000 to 9/30/2011:

$$\frac{(010 - 860\text{C} - 925 - 825 - 668 - 820\text{A})}{018}\ x\ 100$$

On 12/31/2011 and after:

$$\frac{(010 - 860\text{C} - 925\text{A} - 825 - 668 - 820\text{A})}{018}\ x\ 100$$

Classified Assets (Estimated) / Net Worth

Estimated losses ÷ net worth.

From 12/31/2000 to 12/31/2018:

$$\frac{(719 + 668)}{997}\ x\ 100$$

On 3/31/2019 and after:

$$\frac{(719 + \text{AS0048} + 668)}{997}\ \text{x}\ 100$$

Asset Quality Ratios

Net Charge-Offs / Average Loans (Annualized)

Total amount of loans charged off during the year – all recoveries on charged-off loans during the year ÷ average loans.

$$\frac{(550 - 551)}{((025\text{B (AC)} + 025\text{B(PYE)})/2)} \text{ x } 100$$

Fair (Market) Value HTM Investments / Book Value HTM Investments

Fair market value of held-to-maturity investments ÷ the book value of held-to-maturity investments.

Before 3/31/2019:

$$\frac{801}{796\text{E}} \, x \, 100$$

From 3/31/2019 to 12/31/2021:

$$\frac{801}{(796\text{E} + \text{AS0073})} \, x \, 100$$

On 3/31/2022 and after:

$$\frac{801}{\text{AS0073}} \, x \, 100$$

Accumulated Unrealized Gain/Loss on Available For Sale Securities / Cost of Available For Sale Investments

Accumulated unrealized gains or (losses) on available-for-sale securities, ÷ the total book value of available-for-sale investments – the accumulated unrealized gains or (losses) on available-for-sale securities.

Before 3/31/2019:

$$\frac{945}{(797\text{E} - 945)} \, x \, 100$$

From 3/31/2019 to 12/31/2021

$$\frac{\text{EQ0009}}{(797\text{E} + \text{AS0067} - \text{EQ0009})} \, x \, 100$$

On 3/31/2022 and after:

$$\frac{\text{EQ0009}}{(\text{AS0067} - \text{EQ0009})} \, x \, 100$$

Delinquent Loans / Assets

All loans 60 days or more delinquent ÷ total assets.

$$\frac{041\text{B}}{010}\ x\ 100$$

Earnings Ratios

Return on Average Assets before Stabilization Income/Expense (Annualized)

Net income (loss) excluding temporary corporate CU stabilization income/expense and National Credit Union Share Insurance Fund premium expense ÷ average assets.

From 3/31/2009 to 6/30/2009 and 12/31/2010 to 12/31/2018:

$$\frac{660A}{((010(AC)+010(PYE))/2))}\ x\ 100$$

From 9/30/2009 to 9/30/2010:

$$\frac{(660\text{A} - \ 440\text{A})}{((010(AC)+010(PYE))/2))}\ x\ 100$$

On 3/31/2019 and after:

N/A

Gross Income / Average Assets (Annualized)

Gross income ÷ average assets.

Before 3/31/2021:

$$\frac{(115+131+659)}{((010(\text{AC})\ +\ 010(\text{PYE}))/2))}\ x\ 100$$

On 3/31/2021 and after:

$$\frac{(115+131+\text{IS0020})}{((010(\text{AC})\ +\ 010(\text{PYE}))/2))}\ x\ 100$$

Yield on Average Loans (Annualized)

Interest on loans ÷ average loans + average loans held for sale.

Before 9/30/2019:

$$\frac{(110 - 119)}{((025B(AC)\ +\ 025B(PYE))/2)}\ x\ 100$$

On 9/30/2019 and after:

$$\frac{(110 - 119)}{((025B(AC)\ +\ 025B(PYE) + 003(AC) + 003(PYE))/2))}\ x\ 100$$

Yield on Average Investments (Annualized)

Income from investments and trading profits and losses ÷ average investments.

Before 6/30/2006:

$$\frac{(120 + 124)}{((799(AC)\ +\ 799(PYE))/2)}\ x\ 100$$

From 6/30/2006 to 12/31/2018:

$$\frac{(120 + 124)}{((799I(AC)\ +\ 730B(AC)\ +\ 730C(AC)\ +\ 799I(PYE)\ +\ 730B(PYE)\ +\ 730C(PYE))/2))}\ x\ 100$$

From 3/31/2019 to 12/31/2020:

$$\frac{(120 + IS0004)}{((799I(AC) + 730B(AC) + 730C(AC) + 799I(PYE) + 730B(PYE) + 730C(PYE))/2)}\ x\ 100$$

From 3/31/2021 to 12/31/2021:

$$\frac{(120)}{((799I(AC) + 730B(AC) + 730C(AC) + 799I(PYE) + 730B(PYE) + 730C(PYE))/2)}\ x\ 100$$

On 3/31/2022 and after:

$$\frac{(120)}{\begin{gathered}((AS0007(AC) + 730B(AC) + AS0008(AC) + AS0013(AC) + AS0017(AC) + \\ 799I(PYE) + 730B(PYE) + 730C(PYE))/2)\end{gathered}}\ x\ 100$$

Fee & Other Operating Income / Average Assets (Annualized)

Fee income + other operating income (including unconsolidated CUSO income) ÷ average assets.

Before 3/31/2021:

$$\frac{(131 + 659)}{((010(\mathrm{AC}) + 010(\mathrm{PYE}))/2)}\ x\ 100$$

On 3/31/2021 and after:

$$\frac{(131 + \mathrm{IS0020})}{((010(\mathrm{AC}) + 010(\mathrm{PYE}))/2)}\ x\ 100$$

Cost of Funds / Average Assets (Annualized)

Cost of funds ÷ average assets. Cost of funds includes dividends and borrowed funds expenses.

$$\frac{(340 + 380 + 381)}{((010(\mathrm{AC}) + 010(\mathrm{PYE}))/2))}\ x\ 100$$

Net Margin / Average Assets (Annualized)

Gross income – cost of funds ÷ average assets.

Before 3/31/2021:

$$\frac{(115 + 131 + 659 - 350)}{((010(\mathrm{AC}) + 010(\mathrm{PYE}))/2)}\ x\ 100$$

On 3/31/2021 and after:

$$\frac{((115 + 131 + \mathrm{IS0020}) - 350)}{((010(\mathrm{AC}) + 010(\mathrm{PYE}))/2)}\ x\ 100$$

Net Interest Margin / Average Assets (Annualized)

Total interest income – total interest expense ÷ average assets.

From 12/31/2000 to 9/30/2001:

$$\frac{((110 + 120 - (340 + 380 + 381))}{((010(\mathrm{AC}) + 010(\mathrm{PYE}))/2)}\ \mathrm{x}\ 100$$

From 12/31/2001 to 6/30/2005:

$$\frac{((110 - 119 + 120 + 124 - 340\ +\ 380\ + 381))}{((010(\mathrm{AC})\ +\ 010(\mathrm{PYE}))/2)}\ x\ 100$$

On 9/30/2005 and after:

$$\frac{(115 - 350)}{((010(\mathrm{AC})\ +\ 010(\mathrm{PYE}))/2)}\ x\ 100$$

Operating Expenses / Gross Income

Total operating expenses ÷ gross income.

Before 3/31/2009:

$$\frac{671}{(115 + 131 + 659)}\ x\ 100$$

From 3/31/2009 to 9/30/2010:

$$\frac{(671 + 311)}{(115 + 131 + 659)}\ x\ 100$$

From 12/31/2010 to 12/31/2020:

$$\frac{671}{(115 + 131 + 659)}\ x\ 100$$

On 3/31/2021 and after:

$$\frac{671}{(115 + 131 + \mathrm{IS0020})}\ x\ 100$$

Fixed Assets and Foreclosed & Repossessed Assets / Total Assets

The sum of land and building, other fixed assets, all future capital and operating lease payments on fixed assets and foreclosed and repossessed assets ÷ total assets.

Before 3/31/2004:

$$\frac{(007 + 008 + 798)}{010}\ x\ 100$$

From 3/31/2004 to 12/31/2007:

$$\frac{(007 + 008 + 798\mathrm{A})}{010}\ x\ 100$$

From 3/31/2008 to 12/31/2021:

$$\frac{(007 + 008 + 798A + 980)}{010}\ x\ 100$$

On 3/31/2022 and after:

$$\frac{(007 + 008 + 798A)}{010}\ x\ 100$$

Net Operating Expenses / Average Assets (Annualized)

Total operating expenses – fee income ÷ average assets.

Before 3/31/2009:

$$\frac{(671 - 131)}{((010(AC) + 010(PYE))/2)}\ x\ 100$$

From 3/31/2009 to 09/30/2010:

$$\frac{(671 + 311 - 131)}{(010(AC) + 010(PYE))/2)}\ x\ 100$$

On 12/31/2010 and after:

$$\frac{(671 - 131)}{((010(AC) + 010(PYE))/2))}\ x\ 100$$

Asset/Liability Management Ratios

Net Long-Term Assets / Total Assets

The sum of real estate loans which will not refinance, reprice, or mature within five years, commercial loans, investments with remaining maturities of more than three years, National Credit Union Share Insurance Fund deposit, land and building, and other fixed assets ÷ total assets.

> For cycles before September 2017, this ratio was calculated using the definition of Net Member Business Loans.

Before 3/31/2004:

$$\frac{(703 + 386 - 712 + 042 + 387 + 799C + 799D + 007 + 008 - 718 + 794)}{010}\ x\ 100$$

On 3/31/2004:

$$\frac{\begin{gathered}(703 + 386 - 712 + 400A + 400B - 814 - 814A \\ +799C + 799D + 007 + 008 - 718 + 794)\end{gathered}}{010}\ x\ 100$$

From 6/30/2004 to 12/31/2004:

$$\frac{\begin{gathered}(703 + 386 - 712 + 400A + 400B - 814 - 814A \\ +799C + 799D + 007 + 008 - 718A + 794)\end{gathered}}{010}\ x\ 100$$

From 3/31/2005 to 12/31/2008:

$$\frac{\begin{gathered}(703 + 386 - 712 + 400A + 400B - 814 - 814A + 799C1 \\ +799C2 + 799D + 007 + 008 - 718A + 794)\end{gathered}}{010}\ x\ 100$$

From 3/31/2009 to 12/31/2010:

$$\frac{\begin{gathered}(703 + 386 - 712 + 400A + 400B - 814 - 814A - 814A1 + 799C1 \\ +799C2 + 799D + 007 + 008 - 718A + 794)\end{gathered}}{010}\ x\ 100$$

From 3/31/2011 to 6/30/2017:

$$\frac{\begin{gathered}(703 + 386 - 712 + 400T - 814E + 799C1 \\ +799C2 + 799D + 007 + 008 - 718A + 794)\end{gathered}}{010}\ x\ 100$$

From 9/30/2017 to 12/31/2021:

$$\frac{\begin{gathered}(703A + 386A + 386B - 712 + 400T1 + 799C1 \\ +799C2 + 799D + 007 + 008 + 794)\end{gathered}}{010}\ x\ 100$$

On 3/31/2022 and after:

$$\frac{\begin{gathered}(703A + 386A + 386B - RL0050 - CM0099 + 400T1 + NV0155 + NV0156 + NV0157 \\ + 007 + 008 + 794)\end{gathered}}{010}\ x\ 100$$

Regular Shares / Total Shares and Borrowings

Regular shares ÷ total shares and borrowings.

Before 3/31/2022:

$$\frac{657}{(018 + 860C - 781)}\ x\ 100$$

On 3/31/2022 and after:

$$\frac{657}{(018 + 860C)}\ x\ 100$$

Total Loans / Total Shares

Total loans ÷ total shares.

$$\frac{025B}{018}\ x\ 100$$

Total Shares, Deposits and Borrowings / Earning Assets

Total shares and deposits, and total borrowings ÷ the sum of total loans and total investments (excluding borrowing repurchase transactions placed in investments for purposes of positive arbitrage).

Before 6/30/2006:

$$\frac{(018 + 860C - 781)}{(025B + 799 - 781)}\ x\ 100$$

From 6/30/2006 to 12/31/2021

$$\frac{(018 + 860C - 781)}{(025B + 799I + 730B + 730C - 781)}\ x\ 100$$

On 3/31/2022 and after:

$$\frac{(018 + 860C)}{(025B + NV0158 + 730B)}\ x\ 100$$

Regular Shares + Share Drafts / Total Shares and Borrowings

Regular shares + share drafts ÷ total shares and borrowings.

Before 3/31/2022:

$$\frac{(902 + 657)}{(018 + 860C - 781)} x\,100$$

On 3/31/2022 and after:

$$\frac{(902 + 657)}{(018 + 860C)} x\,100$$

Borrowings / Total Shares and Net Worth

Borrowings ÷ total shares and net worth.

Before 3/31/2022:

$$\frac{(860C - 781)}{(018 + 997)} x\,100$$

On 3/31/2022 and after:

$$\frac{(860C)}{(018 + 997)} x\,100$$

Productivity Ratios

Members / Potential Members

Number of current members ÷ the number of potential members.

$$\frac{083}{084} x\,100$$

Borrowers / Members

Number of loans ÷ the number of current members.

$$\frac{025A}{083} x\,100$$

Members / Full-Time Employees

Number of current members ÷ equivalent full-time employees.

$$\frac{083}{(564A + (564B/2))}$$

Average Shares per Member

Total Shares ÷ number of current members.

$$\frac{018}{083}$$

Average Loan Balance

Total loans ÷ number of loans.

$$\frac{025B}{025A}$$

Salary & Benefits / Full-Time Employees (Annualized)

Total employee compensation and benefits ÷ equivalent full-time employees.

$$\frac{210}{(564A + (564B/2))}$$