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MEASURING PERFORMANCE OF MICROFINANCE INSTITUTIONS: A FRAMEWORK FOR REPORTING, ANALYSIS, AND MONITORING

DEVELOPED BY THE SEEP NETWORK FINANCIAL SERVICES WORKING GROUP
AND ALTERNATIVE CREDIT TECHNOLOGIES, LLC

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FOREWORD

FIRST EDITION

Measuring Performance of Microfinance Institutions: A Framework for Reporting, Analysis, and Monitoring (hereafter referred to as the Framework) is printed in editions. Each successive edition incorporates the most recent changes or additions to the standard definitions of terms, ratios, and adjustments. To ensure using the most current Framework, visit The SEEP Network Web site at www.seepnetwork.org or contact The SEEP Network at 1825 Connecticut Avenue, NW, Washington, D.C. 20009, USA.

ACKNOWLEDGMENTS

This Framework is based on the work performed by a roundtable of donors, rating agencies, and The SEEP Network, which produced an earlier work—*Microfinance Consensus Guidelines: Definitions of Selected Financial Terms, Ratios, and Adjustments for Microfinance*. The Framework is part of a larger Financial Standards Promotion Project, which is supported by the U.S. Agency for International Development (USAID) through the Financial Services Knowledge Generation project of the Accelerated Microenterprise Advancement Project (AMAP). As the prime contractor for AMAP, Development Alternatives, Inc. (DAI) provided significant support to SEEP and Alternative Credit Technologies (ACT), LLC in completing this Framework.

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ENDORSEMENTS

The SEEP Network trusts that all organizations (practitioners, donors, rating agencies, and others) that have contributed to this effort and are part of this standards process will add their endorsement to this Framework in future editions.

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ABBREVIATIONS

ACT	Alternative Credit Technologies, LLC
AMAP	Accelerated Microenterprise Advancement Project
CD	certificate of deposit
CGAP	Consultative Group to Assist the Poorest
CPI	Consumer Price Index
DAI	Development Alternatives, Inc.
DFID	Department for International Development (United Kingdom)
IAS	International Accounting Standards
IFRS	International Financial Reporting Standards
IMF	International Monetary Fund
FSWG	Financial Services Working Group
GNI	Gross National Income
GNP	Gross National Product
MFI	microfinance institution
MIS	management information system
MIX	Microfinance Information eXchange
NGO	nongovernmental organization
PAR	Portfolio at Risk
USAID	U.S. Agency for International Development

1 DEVELOPING STANDARD DEFINITIONS OF FINANCIAL TERMS, RATIOS, AND ADJUSTMENTS FOR MICROFINANCE

Microfinance has become a diverse and growing industry. Thousands of microfinance institutions (MFIs) exist, ranging from grass roots self-help groups to commercial banks that provide financial services to millions of microenterprises and low-income households. These MFIs receive support and services not only from donor agencies, but also from investors, lenders, network organizations, rating firms, management consulting firms, and a host of other specialized businesses. These organizations in aggregate make up the thriving global microfinance industry.

As with any global industry, microfinance needs accepted standards by which MFIs can be measured. Common standards allow for microfinance managers and board members to assess more accurately how their institution is performing. Institutions that apply industry standards are more transparent—it makes it harder to hide or obscure bad performance and easier to benchmark good performance. For MFIs, industry-wide standards can make reporting to donors, lenders, and investors easier to do if the recipients of the reports are also in agreement with the standards. Common standards provide the language that enables MFIs to communicate with other participants in the industry, whether they are down the street or across the ocean.

A growing acceptance of standards for microfinance has emerged since the early 1990s. In 2002, microfinance institutions, The SEEP Network, rating firms, and donor agencies jointly developed *Microfinance Financial Definitions Guidelines: Definitions of Selected Financial Terms, Ratios, and Adjustments for Microfinance*, known as the Financial Definitions Guidelines. These guidelines were the result of painstaking discussions, negotiations, and compromises to develop generally accepted definitions for the industry. The primary objective of the Financial Definitions Guidelines was to put forward standard definitions for selected financial terms and suggest a standard method of calculating certain financial ratios.

This Framework builds on that consensus.

1.1 PURPOSE

The purpose of this Framework is to provide microfinance practitioners with a means to develop financial statements and reports so that those statements and reports can be used for meaningful analysis and monitoring and are in accordance International Financial Reporting Standards (IFRS). The authors trust that this Framework will assist MFI managers in developing a consistent performance monitoring system based on international standards that can assist managers in making decisions, informing boards of directors, and reporting to donors, investors, and other interested parties.

Although this Framework is written by and for practitioners, it can be valuable for many other users as well. Producers of information, such as raters or auditors, may also find the Framework useful for their purposes. The Framework can also be used by network organizations, donors, investors, and other users of information who want to use a standardized reporting format for the institutions they support.

This Framework, which uses the Financial Definitions Guidelines as its basis, includes the most up-to-date definitions and calculations in the industry. As the title suggests, the Financial Definitions Guidelines' terms and ratios were selected because they were commonly used and presented definitional issues. Several terms that are needed to construct a complete set of financial statements were not included, however. For this reason, The SEEP Network developed this Framework, which goes beyond the Financial Definitions Guidelines. This Framework provides sample financial

statement and report templates, suggests calculations for adjustments, and makes recommendations on which indicators to monitor.

For MFIs that lack a comprehensive financial reporting framework, this Framework may provide it. Microfinance managers who already have reporting formats may also find this Framework useful to align their own framework with the industry-standard terms, ratios, and adjustments.

1.2 HISTORY

The history of microfinance is often associated with the rise of nongovernmental organizations (NGOs) providing microcredit services to the poor and the development of a handful of microfinance banks. In the early 1990s, standards began to emerge calling for stronger financial management of microcredit providers, particularly in their delinquency management and reporting. At the same time, credit unions and banks involved in microlending developed stronger monitoring techniques for their microcredit portfolios.

In 1995, The SEEP Network produced a paper called *Financial Ratio Analysis of Microfinance Institutions*. The primary objective of the paper, commonly referred to as the “Ratios Monograph” or the “Blue Book,” was to introduce managers of microcredit organizations to the calculation and interpretation of financial ratios. The authors also hoped that the paper would contribute to the development and adoption of financial reporting standards in the microcredit community—and it did. Since 1995, hundreds of new MFIs have used the Ratios Monograph and other guides to develop financial statements and financial reports.

Since 1995, MFIs have grown in size, type, number, and complexity. At the same time, more emphasis has been placed on financial accountability, management, and viability.

The concept of standards has gained wide acceptance and numerous champions. Network organizations, CGAP and its donor members, the MicroBanking Bulletin, rating firms, and microfinance training centers, to a name a few, have worked hard to promote indicators based on common definitions and calculations.

On closer examination, however, many financial terms and indicators considered “standard” continue to differ in name and content among MFIs. This leads to confusion among practitioners and analysts and causes considerable distortions when comparing MFIs. The industry recognized this deficiency and agreed that developing standard definitions of financial terms and the most common indicators was an important next step in its development.

The 2002 Financial Definitions Guidelines have helped minimize much of the ambiguity by defining nearly 50 financial terms and providing calculation guidelines for 20 ratios. The authors trust that this Framework will move the industry one step further in the standardization effort by providing examples, identifying adjustments, and highlighting the indicators that are most important to monitor.

1.3 FUTURE

This Framework is only one step in a larger Microfinance Performance Standards project developed by The SEEP Network. Gaining acceptance of these standards is a much longer process. SEEP is developing training materials and will be organizing training courses on standards that can be offered by microfinance networks, microfinance training and support centers, and others who want to bring the latest international standards to their market. SEEP is also working with donors, investors, rating firms, and other service providers to encourage them to incorporate the definitions presented here and in the Financial Definitions Guidelines into their own microfinance lexicon.

Standards in microfinance are evolving as the industry diversifies and matures and IFRS is also evolving. For this reason, The SEEP Network helped establish a Microfinance Standards Committee. The purpose of this committee is to create a forum for discussing changes in standards over time to revise and add to the standards presented here. This Standards Committee, comprised of MFIs, donors, rating agencies, and other industry experts, will be asked to review all issues related to standard definitions and calculations. They will make decisions regarding which definitions and calculations need to be amended or added. These changes will be included in future editions of the Framework.

In particular, the authors of this Framework recognize that it does not fully incorporate the developing standards for measuring deposit-taking MFIs, nor does it include any of the growing set of social performance indicators. Both of these issues can be addressed as consensus grows on new indicators related to savings and social performance.

The Microfinance Information eXchange (MIX) is also making an effort to integrate microfinance standards with eXtensible Business Reporting Language (XBRL). XBRL is becoming the standard means of communicating business and financial data electronically, enabling all types of institutions to share and compare data. SEEP will work with the MIX to ensure the Framework can be supported by XBRL in the future.

1.4 EDITIONS

Because this Framework is intended to represent the most up-to-date standards, only a limited number of each edition will be printed. The SEEP Network will update this Framework based on the decisions and recommendations of the Standards Committee to ensure the Framework's currency. To verify that the most current Framework is being used, visit the SEEP Web site at www.seepnetwork.org or contact The SEEP Network at 1825 Connecticut Avenue, NW, Washington, D.C. 20009, USA.

1.5 CONTENT

The Framework consists of five chapters and four annexes.

(Note: The annexes are not included in this edition. They will be added in the next edition.)

Chapter 2, Financial Statements and Reports, consists of the three major financial statements:

- Income statement,
- Balance sheet, and
- Cash flow statement.

It also includes two common MFI reports:

- Portfolio and Activity report and
- Non-financial data report.

For each statement or report, a brief explanation of the purpose, a suggested format, and a definition of each account or term are provided.

Chapter 3, Analytical Adjustments, highlights the calculation and application of adjustments to financial statements. The minimum adjustments recommended for benchmarking and measuring “true performance” are as follows:

- Subsidy adjustments,
- Inflation adjustment, and
- Portfolio at risk adjustments.

Because of the Framework’s structure, the reader should first attempt to create a set of adjusted financial statements, as described in chapter 3, before calculating the ratios in chapter 4. The analytical adjustments are perhaps the most challenging part of this Framework. Although the adjustments are recommended, the user does not need to be able to complete each (or any) adjustment to calculate unadjusted ratios in chapter 4 or create an unadjusted performance report in chapter 5.

Chapter 4, Financial Ratios and Indicators, is dedicated to the definition and calculation of 18 performance ratios, most of which can be calculated on an unadjusted and adjusted basis. The SEEP Network puts forward a “SEEP 18” list of ratios, presented in four different categories:

- Profitability and sustainability,
- Asset/liability management,
- Portfolio quality, and
- Efficiency and productivity.

Chapter 5, Creating and Analyzing Performance Monitoring Reports, provides some examples of different types of reports for different audiences: Management, Board of directors, Donors, Creditors and Investors.

Readers are welcome to create their own reports using this Framework. The reports in chapter 5 are presented only as examples.

Annexes to this Framework will be designed to assist managers who want to create statements and reports similar to those contained in this Framework.

- Annex A will provide examples of two MFIs and how their financial data can be used and analyzed in this Framework, including an explanation about how to migrate data from an MFI’s own chart of accounts into the format presented in the Framework.
- Annex B will offer instructions for managers about how to create annualized financial statements so that performance reports can be generated on a quarterly or year-to-date basis.
- Annex C will provide some additional indicators for managers to consider, including more indicators for MFIs that accept deposits from clients.
- Annex D will include examples of high-quality financial reports for the user’s consideration.

1.6 USING THE SEEP FRAMEWORK

The authors assume the audience is familiar with microfinance institutions and has some basic knowledge of accounting and financial reporting, but they do not assume that all readers have full knowledge of how statements are constructed. Indeed, the purpose of this Framework is to instruct

managers on how to categorize data into statements and reports, analyze them, and use them for monitoring purposes.

The contributors to the Financial Definitions Guidelines and this Framework recognize that all microfinance institutions cannot use the same chart of accounts or accounting standards and practices. This Framework is for performance monitoring only and does not provide a chart of accounts or accounting policies. Regardless of local standards and requirements, an institution commonly develops useful reports for management purposes, board reporting, or external reporting. Even if certain formats are required by local authorities for external reports, this Framework can still be used for internal management purposes. The SEEP Network has engaged donors, investors, and other industry players to gain their acceptance of this reporting format so that MFIs will be able to use this same format for multiple stakeholders.

To use this Framework, the reader should first review the referencing and calculation conventions highlighted below.

1.6.1 REFERENCING

This Framework uses a reference system to assist the reader in identifying the terms used and to assist in interpreting formulas. For each statement or report, the line items are numbered consecutively and begin with one of the following letters:

- I** Income Statement
- B** Balance Sheet
- C** Cash Flow Statement
- P** Portfolio Report and Activity Report
- R** Ratios
- A** Adjustments
- N** Non-Financial Data Report

1.6.2 MULTIPLE PERIODS

To refer to accounts from different periods (that is, data from a previous period and data from the current period), a superscript number identifies the period as follows:

¹ = end of current period

⁰ = end of previous period

As an example, during the calendar year 2004:

P¹ = December 31, 2004

P⁰ = December 31, 2003

If a period is not indicated, then the account is for the current period.

1.6.3 AVERAGING

Many financial ratios require an average for a balance sheet account. In this Framework, averages are indicated by the use of the superscript letters “avg”—for example:

$$P^{\text{avg}}$$

Averages for a period, such as a year, can be calculated by adding a beginning amount and an end amount and dividing the result by two—for example:

$$P^{\text{avg}} = [(P^0 + P^1)/2]$$

Unfortunately, such simple average calculations often provide a distorted number, particularly for institutions whose loan portfolios are growing quickly or that experience significant seasonal fluctuations in lending activities. Period averages are much more meaningful when they are computed on a monthly or quarterly basis rather than an annual basis. When using multiple-period averages, the numerator is the sum of subperiods and the opening period, and the denominator is the total number of periods added above. As an example, a quarterly average would be calculated as follows:

$$P^{\text{avg}} = \frac{(P^0 + P^1 + P^2 + P^3 + P^4)}{5}$$

When reporting data, MFIs should disclose how the average is calculated and comment, if applicable, on potential distortions that result from the calculation method. Throughout this Framework, the two-period simple average is used for ease of calculation. Box 1 includes an example of how the method of averaging can affect the result.

Box 1.1: Comparing Averaging Methods

Comparing the two methods, an MFI that has the following gross loan portfolio over a year would calculate its average as follows:

Period	Period ending	Gross loan portfolio
0	31 December, Previous Year	100
1	31 March	89
2	30 June	115
3	30 September	98
4	31 December	135

The simple annual average is:

$$P^{\text{avg}} = [(100 + 135)/2] = 117.5$$

Using multiple subperiods, in this case, quarterly, the average is:

$$P^{\text{avg}} = \frac{(100 + 89 + 115 + 98 + 135)}{(4 + 1)} = 107.4$$

1.6.4 ANNUALIZING

When calculating financial ratios in this Framework, the assumption is that the income statement represents a period of a year. If it does not, most income statement figures must be annualized before they can be compared with previous years or against other MFIs' annual data.

To annualize a number, use this formula:

$$AA = [A \times (12/M)]$$

where:

AA = annualized amount

A = amount

M = number of months in the period

For example, if the MFI has earned \$100 in financial income at the end of nine months, the annualized figure is as follows:

$$AA = [100 \times (12/9)] = 133.33$$

Annex B, "Annualizing Financial Statements," will provide details on how to create an annualized statement.

1.6.5 COMPLETING THE FRAMEWORK

The Framework is designed to be completed one step at a time. The user should first read chapter 2 and review how to put an MFI's data into the suggested financial statements and report formats. Chapter 3 instructs the user on how these financial statements can be expressed on an adjusted basis. Financial ratios and indicators are explained in chapter 4 using data from chapters 2 and 3. Finally, chapter 5 provides several templates for performance monitoring reports for different types of users.

The sample statements and reports throughout this Framework include financial data as they would be presented for a typical MFI. Each statement relates to the other just as an MFI's statements are linked. In this way, the reader can see how to create a performance monitoring system step by step.

2 FINANCIAL STATEMENTS AND REPORTS

The starting point for sound financial management is the timely and accurate production of financial reports, which requires punctual and accurate financial records. This begins with accounting: the process of recording financial transactions, grouping them together by category, and summarizing them for a certain period or at a certain point in time. The summarized information of all these transactions is placed in standardized financial statements.

Frequently, MFIs must produce financial statements based on a format required by lenders, donors, local regulators, or network organizations. Such statements may satisfy reporting requirements of one or more of those groups, but the required format may not be helpful as a management tool. Despite efforts to create standard accounting practices or terminology, such as the International Financial Reporting Standards (IFRS) and the Financial Definitions Guidelines, few attempts to harmonize the content and presentation of financial statements have been made.

2.1 USING THE FRAMEWORK FOR MFI STATEMENTS AND REPORTS

As any financial manager can attest to, financial statements can be used to conceal as much as to reveal. If financial statements are to be used as a management tool, each statement should tell the manager, analyst, or other reviewer the true financial performance or financial condition of the MFI. This chapter provides a brief description of MFI financial statements, a description of the main financial accounts, and sample formats that are useful for MFI managers and others.

All MFIs must develop financial statements. These statements are the primary means for an institution to express its financial activities. Some statements contain stock data, which “take stock” or present data at a moment in time. Other statements contain flow data, which report on the flow or summary of transactions over a defined period. Because an MFI’s core business is the provision of financial services, the financial statements and reports are very similar to those of traditional financial institutions. MFI financial statements and reports include the following:

- Income Statements (or profit and loss statements),
- Balance Sheets (or statements of financial position),
- Cash Flow Statements (or sources and uses of funds statements), and
- Portfolio Reports.

To complete this Framework, MFIs will also have to complete a fifth report, a non-financial data report. This report contains information is needed to calculate financial ratios or adjustments but is not included in the financial statements.

A sixth report, the Statement of Changes in Equity Position (or statement of changes in net worth), is common among for-profit MFIs. This flow statement shows how financial transactions during a particular period have affected the equity of the MFI. It helps investors or donors assess the net worth of the MFI, usually on a per shareholder basis. This statement will not be included in this discussion; an example, however, will be provided in annex D.

In designing the statements, the authors considered the most commonly used formats and selected the ones that contained a reasonable number of accounts organized as clearly as possible. The formats presented below include the minimum breakdown of financial information required to complete the overall Framework and be in accordance with IFRS. These formats have been reviewed for IFRS compliance and, as of this edition, no material conflicts exist.

2.1.1 MAPPING ACCOUNTS

The authors recognize that different MFIs use different names for accounts. One MFI's *revenue* is another's *income*. MFIs are encouraged to use the terminology in this Framework whenever possible. The definitions presented in this chapter will help the user match an MFI's accounts to this Framework. An example of how to match or "map" an MFI's accounts to this Framework will be provided in annex A.

2.1.2 ADDING ACCOUNTS

Users may want to create subaccounts under some of the income statement and balance sheet accounts for management purposes. As an example, the Framework contains only two categories of Administrative Expenses: (I19) Depreciation and Amortization; and (I20) Other Administrative Expenses. Adding subaccounts, such as the following, is easy:

- (I20) Other Administrative Expense
 - (I20-1) Rent
 - (I20-2) Transportation Expenses
 - (I20-3) Office Supplies

Adding subaccounts enables users to track certain accounts particular to their business while maintaining consistency with industry standards. Note that this Framework is not a substitute for a chart of accounts, and any accounts added are for analytical rather than accounting purposes.

2.1.3 SEGREGATING FINANCIAL AND NON-FINANCIAL SERVICES

Many organizations conduct both financial and non-financial operations. If non-financial services account for a small portion of the MFI's activities (that is, if they do not require significant fixed assets or if the services, such as training, are mandatory to receive loans), classifying all income and expenses related to these activities as non-operating items may make sense. If non-financial operations are significant, a manager should allocate costs among different programs and develop segregated financial statements that treat the financial service operations as a separate business.

For more information on how to allocate costs and segregate financial statements, see *Cost Allocation for Multi-Service Microfinance Institutions*.¹

2.1.4 CASH OR ACCRUAL ACCOUNTING

Institutions use cash or accrual accounting or some mixture of both. Cash accounting requires that revenue and expense items are not booked until a cash payment is received or paid. Accrual-based accounting is a system in which revenues and expenses are recognized and booked in the period in which they arise, regardless of when the cash for the revenue or expense actually changes hands. Institutions using either method can use this Framework. The user should be aware, however, that both methods have some distortion effect.

¹ Brigit Helms, 1998, *Cost Allocation for Multi-Service Microfinance Institutions*, Occasional Paper No. 2 (Washington, D.C.: CGAP). http://www.cgap.org/publications/financial_transparency.html.

2.2 INCOME STATEMENT

The income statement is a flow statement that represents activity over a given period, such as a day, month, quarter, or year. The income statement may also be referred to as a *profit and loss statement* because it illustrates the overall net profit or loss for that period (nonprofit MFIs may also use the terms *net surplus* or *deficit*). The income statement summarizes all the revenue and expense transactions for a defined period, usually the financial year to date. The income statement may have two columns of data showing present and past period performance to facilitate comparison.

The presentation of the income statement is normally divided between revenue accounts and expense accounts. It also usually includes some division of operating accounts and non-operating accounts. Operating accounts include all revenue and expenses that are directly related to the MFI's core business of making loans, accepting deposits, borrowing funds, and providing other financial services. Non-operating accounts include all revenue and expenses that result from activities outside the MFI's core financial business, such as training or the sale of merchandise. Although many MFIs have ongoing support from donors, donations and grant funds from donors are considered to be non-operating revenue. In this Framework, all donations for loan capital and operating expenses are included in the income statement. Table 2.1 shows a sample income statement. Box 2.1 includes a discussion on the "bottom line" of an income statement.

TABLE 2.1: SAMPLE INCOME STATEMENT

Ref.	X-Ref.	Account Name	From 1/1/2004 to 12/31/2004	From 1/1/2003 to 12/31/2003
I1		Financial Revenue	18,976,898	10,521,727
I2	C1 ^a	Financial Revenue from Loan Portfolio	17,053,668	9,302,491
I3		Interest on Loan Portfolio	13,867,568	7,494,464
I4		Fees and Commissions on Loan Portfolio	3,186,100	1,808,027
I5	C2 ^a	Financial Revenue from Investments	1,597,830	1,003,556
I6	C3 ^a	Other Operating Revenue	325,400	215,680
I7		Financial Expense	1,287,719	853,197
I8	C5 ^a	Financial Expense on Funding Liabilities	1,039,719	797,869
I9		Interest and Fee Expense on Deposits	256,343	250,000
I10		Interest and Fee Expense on Borrowings	783,376	547,869
I11	C6 ^a	Other Financial Expense	248,000	55,328
I12		Net Financial Income	17,689,179	9,668,530
I13	C29	Impairment Losses on Loans	439,972	162,862
I14	P8	Provision for Loan Impairment	489,154	297,368
I15	P10	Value of Loans Recovered	(49,182)	(134,506)
I16	C7 ^a	Operating Expense	15,072,242	6,633,187
I17		Personnel Expense	8,700,000	4,594,436
I18		Administrative Expense	6,372,242	2,038,751
I19	C28	Depreciation and Amortization Expense	1,597,669	317,057
I20		Other Administrative Expense	4,774,573	1,721,694
I21		Net Operating Income	2,176,965	2,872,482
I22	C22 ^a	Net Non-Operating Income/(Expense)	(1,403,143)	(1,838,992)
I23		Non-Operating Revenue	586,471	—
I24		Non-Operating Expense	(1,989,614)	(1,838,992)
I25	C27	Net Income (Before Taxes and Donations)	773,822	1,033,490
I26	C8 ^a , C30 ^a	Taxes	760,816	732,306
I27	B28	Net Income (After Taxes and Before Donations)	13,006	301,184
I28	B25, C20 ^a , C44 ^a	Donations	4,582,000	3,442,986
I29		Donations for Loan Capital	—	1,258,291
I30		Donations for Operating Expense	4,582,000	2,184,695
I31		Net Income (After Taxes and Donations)	4,595,006	3,744,170

^a If an MFI uses cash accounting, these accounts will have the same value as the cross-referenced accounts. If the MFI uses accrual accounting, these values will not be the same as the cross-referenced account.

Table 2.2 provides line-by-line definitions of the information presented in the income statement (table 2.1) to clarify what each account includes.

TABLE 2.2: INCOME STATEMENT DETAIL

Ref.	Account Name	Definition	Calculation
I1	Financial Revenue	The total value of all revenue earned from the provision of financial services.	I2 + I5 + I6
I2	Financial Revenue from Loan Portfolio	Revenue from interest, fees, commissions, and other fees earned on the loan portfolio. This includes not only interest paid in cash but also interest accrued but not yet paid.	I3 + I4
I3	Interest on Loan Portfolio	Interest earned on the loan portfolio. If the MFI is earning interest on loans to employees or board members, this interest should be disclosed. If this interest is significant, the MFI should create two subaccounts for (I3)—one for interest from clients and the other for interest from related parties.	
I4	Fees and Commissions on Loan Portfolio	Penalties, commissions, and other fees earned on the loan portfolio. This may also include revenue under Islamic finance methods. If the MFI is earning fees and commissions on loans to employees or board members, these should be disclosed. If these fees and commissions are significant, the MFI should create two subaccounts for (I3)—one for fees and commissions from clients and the other for fees and commissions from related parties.	
I5	Financial Revenue from Investments	Revenue from interest, dividends, and other payments generated by financial assets other than the loan portfolio, such as interest-bearing deposits, certificates of deposit, and treasury obligations. This may include net trading income (gains less losses) from securities and foreign currency trading and the recovery of any interest revenue that was previously written off.	
I6	Other Operating Revenue	All other revenue from the provision of financial services, including transaction fees, premiums, membership fees, passbooks, and smartcards. If the MFI provides loans to employees or board members, the interest and fee revenue from those loans should be included here. This account also includes net foreign exchange gains.	
I7	Financial Expense	The total value of all financial expenses incurred from operations.	I8 + I11
I8	Financial Expense on Funding Liabilities	Total (I9) Interest and Fee Expense on Deposits and (I10) Borrowings, as defined below.	I9 + I10
I9	Interest and Fee Expense on Deposits	Interest and fees incurred on all deposits taken by the MFI. ^a	
I10	Interest and Fee Expense on Borrowings	Interest and fees incurred on all borrowings that fund the loan portfolio. This account does not include interest and fees on non-funding liabilities, such as mortgages or car loans. These items are included in (I11) Other Financial Expense.	

^a Managers may want to have two subaccounts, (I9-1) Interest Expense on Deposits and (I9-2) Fee Expense on Deposits. These two subaccounts will enable managers to calculate the spread between (I3) Interest on the Loan Portfolio and (I9-1) Interest Expense on Deposits.

Ref.	Account Name	Definition	Calculation
I11	Other Financial Expense	Other financial expense related to financial services, including interest on non-funding liabilities, such as mortgages, and loans linked to fixed assets, such as vehicles. This account also includes net foreign exchange loss. For MFIs required by local law to use inflation-based accounting, this account also includes the amount of net loss on monetary position due to inflation as defined by International Accounting Standards (IAS) 27, known as the Net Inflation Expense. ^b Finally, it includes any expenses used to reduce (B6) Interest Receivable on the Loan Portfolio if the interest is considered uncollectible. ^c	
I12	Net Financial Income	The net value of financial earnings from financial services.	I1 – I7
I13	Impairment Losses on Loans	Previously known as net loan loss provision expense, is now (I14) Provision for Loan Impairment net of the (I15) Value of Loans Recovered.	I14 – I15
I14	Provision for Loan Impairment	Previously known as the Loan Loss Provision Expense, the non-cash expense calculated as a percentage of the value of the loan portfolio that is at risk of default. ^d This value is calculated in the portfolio report and is used to create or increase the (B5) Impairment Loss Allowance on the balance sheet. ^e	
I15	Value of Loans Recovered	Total value of principal recovered on all loans previously written off. This includes principal on partially recovered loans and those recovered in full. Subsequent recoveries of loans previously written off decrease the amount of the (I14) Provision for Loan Impairment, and the net amount is booked as (I13) Impairment Losses on Loans.	
I16	Operating Expense	The total value of all operating expenses, including (I17) Personnel and (I18) Administrative Expenses, incurred in providing financial services.	I17 + I18
I17	Personnel Expense	Includes staff salaries, bonuses, and benefits, as well as employment taxes. It also includes the cost of employee recruitment and initial orientation, but not the cost of ongoing or specialized training for existing employees, which is an (I18) Administrative Expense.	
I18	Administrative Expense	Non-financial expenses excluding personnel directly related to the provision of financial services or other services that form an integral part of an MFI's financial services' relationship with its clients.	I19 + I20

^b I11 does not include inflation adjustments that are made for analysis purposes only as discussed in Chapter 3.

^c International Accounting Standards (IAS) 18.34 states that if uncertainty arises whether accrued revenue will be paid, the institution should recognize an expense (rather than a reversal of revenue) for the uncertain amount. This results in an expense to the income statement, (I11) Other Financial Expense, and a reduction of (B6) Interest Receivable on Loan Portfolio.

^d According to IAS 37, the proper term for this account is *Impairment Losses on Loans*. Although the term Net Loan Loss Provision Expense is still commonly used by MFIs, IFRS is very clear on the need to use of the proper term, and MFIs are encouraged to do so.

^e Recovery of loans written off is included here as a part of Impairment Loss on Loans in accordance with International Financial Reporting Standards (IFRS). Some institutions include recoveries as extraordinary income, part of (I21) Non-Operating Revenue; however, IAS 8 prohibits this. Institutions are recommended to show both the Provision for Loan Impairment on Loans and the Value of Recovered Loans on the Income Statement as subaccounts. If the amount of recoveries is material, SEEP recommends that the amount be presented as its own account.

Ref.	Account Name	Definition	Calculation
I19	Depreciation and Amortization Expense	The non-cash expense that allocates the purchase cost of an MFI's fixed assets over their useful economic life. The depreciation expense is used to create or increase (B11) Accumulated Depreciation and Amortization on the balance sheet. Amortization is used for other tangible assets, such as software. If amortization is significant, it should be disclosed, and the MFI should add two subaccounts—one for depreciation and the other for amortization. ^f	
I20	Other Administrative Expense	All administrative expenses other than (I19) Depreciation Expense. Examples include rent, utilities, supplies, advertising, transportation, communications, and consulting fees. It may also include certain taxes related to administration, such as a value-added tax. These expense categories may be listed as separate line items as appropriate.	
I21	Net Operating Income	The net earnings from the provision of financial services.	I12 – I13 – I18
I22	Net Non-Operating Income/(Expense)	The net earnings from products and services not directly related to core microfinance operations. Institutions should disclose large material amounts of non-operating revenue separately by creating accounts under (I23) Non-Operating Revenue or (I24) Expense.	I23 – I24
I23	Non-Operating Revenue	All revenue not directly related to core microfinance operations, such as revenue from business development services, training, consulting services, management information system sales, or sale of merchandise. It does not include donations (see I28). This account also includes any exceptional gains and revenues. Large or relevant non-operating revenue categories should be listed as separate line items as appropriate.	
I24	Non-Operating Expense	All expenses not directly related to the core microfinance operation, such as the cost of providing business development services or training. This account also includes any exceptional losses and expenses. Large or relevant expense categories should be listed as separate line items as appropriate.	
I25	Net Income (Before Taxes and Donations)	All net earnings from the institution's operations before the inclusion of taxes and donations.	I21 + I22
I26	Taxes	Includes all taxes paid on (I26) Net Income or other measure of profit as defined by local tax authorities.	
I27	Net Income (After Taxes and Before Donations)	All net earnings from the institution's operations, net of (I26) Taxes, and before the inclusion of (I28) Donations.	I25 – I26
I28	Donations	Value of all donations recognized as revenue during the period, whether restricted or not.	I29 + I30
I29	Donations for Loan Capital	Value of all donations used to fund the loan portfolio. Many MFIs are accustomed to applying Donations for Loan Capital directly to the balance sheet. This Framework requires that they are first booked as non-operating revenue to increase transparency.	

^f Because IFRS regulations are strict regarding amortization, MFIs are recommended to amortized tangible assets only and not include intangible assets, such as goodwill.

Ref.	Account Name	Definition	Calculation
I30	Donations for Operating Expenses	Value of all donations used to pay for operations other than funding the loan portfolio. These operations include paying personnel and administrative expenses and purchasing fixed assets.	
I31	Net Income (After Taxes and Donations)	All net earnings from the institution's operations, net of taxes, and after the inclusion of donations.	I27 + I28

2.3 BALANCE SHEET

Box 2.1: Where is the Bottom Line?

The bottom line is not as easy to find as it may sound. MFI managers need to know the differences among the many “bottom lines” and recognize that each may have a place in evaluating the financial condition of an institution. Understanding what contributes to the bottom line and clearly defining the bottom line is important in making decisions that will fulfill the MFI’s objectives.

(I21) Net Operating Income. The microfinance industry has traditionally considered revenue from operations less expenses from operations to be the bottom line. This excludes all non-operating items that are considered separate from the core business of providing financial services. Because donations are not included in net operating income, it clearly is a “before donations” measure of profitability. This measure, however, can also be presented on a “before tax” or “after tax” basis.

(I27) Net Income After Taxes and Before Donations. Another bottom line is Net Income After Taxes and Before Donations, which includes other non-operating revenue and all non-operating expenses, but excludes donations. The argument is that even if these revenue and expense items are not directly related to financial services, they do affect the MFI’s ability to operate profitably and, therefore, must be included when considering an MFI’s financial health.

(I31) Net Income After Taxes and Donations. From a regulator’s perspective, the bottom line might be total revenue less total expenses. Although donations and other non-operating items may not be related to the MFI’s core business, they may a normal part of the MFI’s activity (such as training revenue or expenses) that increase or decrease and MFI’s net profit.

Adjusted Net Operating Income. The “adjusted” bottom line also exists. Adjustments are additions or subtractions from net income that are intended to compensate for the effects of inflation, subsidies, and other “hidden” items. MFI analysts often restate an MFI’s income statement on an adjusted basis. The primary adjustments are discussed in chapter 3.

Net Results. To make matters more complex, the microfinance community frequently refers to the “double bottom line,” which highlights its twin goals of reaching financial sustainability while maximizing social returns—that is, reaching more or poorer clients. Many microfinance network organizations have developed social indicators that combine financial and demographic data to determine whether the MFI is serving poorer clients.

For calculating ratios in this Framework, the “bottom line” is generally considered to be (I21) Net Operating Income less (I26) Taxes or Adjusted Net Income less (I26) Taxes if the user is able to complete the adjustments outlined in chapter 3.

—Adapted from Tillman Bruett, et al., *Técnicas de gestão microfinanceira, Programa de Desenvolvimento Institucional (Rio de Janeiro: BNDES)*, 196.

The balance sheet is a stock statement. In other words, it captures the financial position or financial structure of an MFI at a moment in time. A balance sheet is usually produced monthly or quarterly (at a minimum, annually), although MFIs with an adequate management information system can usually produce a balance sheet on a daily or weekly basis. The balance sheet summarizes the ending balance of all asset, liability, and equity accounts. Table 2.3 shows a sample balance sheet.

Recording donations, grants, and in-kind contributions is important for MFIs. More information on how to deal with donations is included in box 2.3

The balance sheet consists of three major categories of accounts:

- Assets—everything an MFI has (such as investments, vehicles) or is owed (such as microloans, interest receivable);
- Liabilities—everything the MFI owes to others (such as borrowings, deposits); and
- Equity—the MFI’s net worth; that is, the difference between assets and liabilities.

As the name implies, the balance sheet is presented in a way that shows the following:

$$\text{Assets} = \text{Liabilities} + \text{Equity}$$

TABLE 2.3: SAMPLE BALANCE SHEET

Ref.	X-Ref.	Account Name	As of 12/31/2004	As of 12/31/2003
Assets				
B1	C26, C50	Cash and Due from Banks	3,261,195	1,146,142
B2		Trade Investments	10,611,928	27,096,586
B3		Net Loan Portfolio	54,338,636	33,471,489
B4		Gross Loan Portfolio	55,609,309	34,701,961
B5		Impairment Loss Allowance	(1,270,673)	(1,230,473)
B6		Interest Receivable on Loan Portfolio	1,604,993	954,993
B7		Accounts Receivable and Other Assets	1,610,308	1,010,308
B8		Other Investments	1,165,420	1,165,420
B9		Net Fixed Assets	5,567,936	4,272,836
B10		Fixed Assets	10,640,051	7,747,282
B11		Accumulated Depreciation and Amortization	(5,072,115)	(3,474,446)
B12		Total Assets	78,160,416	69,117,773
Liabilities				
B13		Demand Deposits	—	—
B14		Short-term Time Deposits	3,423,878	1,030,868
B15		Short-term Borrowings	2,737,009	1,371,768
B16		Interest Payable on Funding Liabilities	237,177	137,177
B17		Accounts Payable and Other Short-term Liabilities	500,100	548,000
B18		Long-term Time Deposits	3,000,000	3,000,000
B19		Long-term Borrowings	16,661,750	16,661,750
B20		Other Long-term Liabilities	3,699,498	4,199,498
B21		Total Liabilities	30,259,412	26,949,061
Equity				
B22		Paid-In Capital	12,000,000	10,000,000
B23		Donated Equity	37,175,822	32,593,822

Ref.	X-Ref.	Account Name	As of 12/31/2004	As of 12/31/2003
B24		Prior Years	32,593,822	29,150,836
B25	I28, C20 ^a , C44 ^a	Current Year	4,582,000	3,442,986
B26		Retained Earnings	(1,401,678)	(914,683)
B27		Prior Years	(1,414,683)	(1,215,867)
B28	I27	Current Year	13,006	301,184
B29		Reserves	126,860	489,574
B30		Other Equity Accounts		
B31		Adjustments to Equity		
B32		Total Equity	47,901,004	42,168,713

^a If an MFI uses cash accounting, these accounts will have the same value as the cross-referenced accounts. If the MFI uses accrual accounting, these values will not be the same as the cross-referenced account.

2.3.1 SHORT-TERM AND LONG-TERM ACCOUNTS

Frequently, MFIs divide assets and liabilities into short-term and long-term accounts in financial statements. Identifying and presenting the short-term and long-term accounts on a balance sheet is an important tool in asset/liability management. MFIs should make sure, however, that short-term (or current) assets and liabilities can be turned into cash within a year from the date of the statement or report—not from the date of disbursement, issuance, or purchase. In addition, short-term assets and liabilities include any portion of a long-term asset or liability that is receivable or payable within a year, even if the final maturity date is more than a year from the report or statement date.

According to IAS, the most useful approach to the classification of assets and liabilities on a balance sheet is to group them first by *type* and second by *maturity*.² For this reason and to simplify this Framework, the entire (B4) Gross Loan Portfolio, regardless of maturity, is contained in a single account. For disclosure purposes, MFIs may want to include two or more subaccounts under Gross Loan Portfolio to separate the portion of all loans due within 12 months and those due after 12 months from the statement date. For example:

- (B4) Gross Loan Portfolio
 - (B4-1) Gross Loan Portfolio Due in \leq 12 Months
 - (B4-2) Gross Loan Portfolio Due in $>$ 12 Months

In addition, MFIs should note that a balance sheet refers to (B2) Trade Investments and (B8) Other Investments rather than short-term and long-term investments. This reflects IFRS principles that state that an MFI's use or intended use of a financial asset is more relevant than its actual maturity. For example, an MFI may hold a long-term treasury note for only a few months for liquidity management. Therefore, to classify it as a long-term financial instrument is misleading. This Framework has adopted this convention rather than the old method of classifying investments by maturity.

2.3.2 CONTRA ASSET ACCOUNTS

Most accounts have positive numbers. In a few cases, accounting principles require an account that has a negative number. These subaccounts represent a reduction of an asset and are referred to as

² See IAS 30.20. This approach is also supported by IAS 39, *Financial Instruments: Recognition and Measurement*.

contra asset accounts. A typical contra asset account for an MFI is (B5) Impairment Loss Allowance (previously known as Loan Loss Allowance), which has the effect of reducing the value of the gross loan portfolio on the balance sheet.

Table 2.4 provides line-by-line definitions of the information presented in the balance sheet (Table 2.3) to clarify what each account represents.

Box 2.2: Dealing with Donations

Consider two issues when recording donations: where to record them and when to record them.

- This Framework recommends the income approach to donations so that all donations for operations and loan funds used in the current operating period are recorded as (I28) Donations on the income statement, which flow into (B25) Donations, Current Year on the balance sheet. At the beginning of a new year, they are transferred from (B25) to (B24) Donations, Previous Years. Donations for operations and loan funds to be used beyond the current operating period are recorded as deferred revenue. If the donation or grant agreement specifies when the donations must be used, record those that must be used within 12 months as (B17) Accounts Payable and Other Short-term Liabilities, and record the remainder as (B20) Other Long-term Liabilities. When a portion of donations is used, that portion is transferred to the income statement (I28) Donations.
- MFIs may record grants for fixed assets as deferred revenue (B20) Other Long-term Liabilities. When the asset is purchased, the purchase amount is transferred to (I30) Donations for Operating Expense.
- If fixed assets are donated, MFIs should record their value as deferred revenue in (B20) Other Long-term Liabilities. Each accounting period, usually monthly or quarterly, an amount equal to the period's depreciation for the donated asset is transferred to (I28) Donations for Operating Expense, and the same amount is credited to (I17) Depreciation and Amortization. If the MFI is not recognizing a fixed asset donation in this manner, it should include the value of the fixed asset as part of this adjustment.

TABLE 2.4: BALANCE SHEET DETAIL

Ref.	Account Name	Definition	Calculation
Assets			
B1	Cash and Due from Banks	Cash on hand, near cash, and other highly liquid instruments paying little or no interest. This may include non-interest-bearing bank balances and deposits. For MFIs that are banks, it may include very short (overnight, daily, weekly) money-market investments or treasuries.	
B2	Trade Investments	Any financial assets acquired or incurred primarily for the purpose of selling or repurchasing in the near term; i.e., convertible to cash within or at 12 months or having a longer term but used for short-term profit-taking or trading. These may include certificates of deposit, including interest-bearing deposits and treasury bills, and are often used in liquidity management.	
B3	Net Loan Portfolio	The (B4) Gross Loan Portfolio less the (B5) Impairment Loss Allowance.	B4 – B5
B4	Gross Loan Portfolio	All outstanding principals due within or at 12 months for all outstanding client loans. This includes current, delinquent, and renegotiated loans, but not loans that have been written off. All delinquent loans should be considered short-term and included here. It does not include interest receivable. If the MFI makes loans to employees, board members, or others associated with the institution, it should disclose this and, if the amount is significant, create subaccounts to (B4) to separate loans to clients and loans to related parties.	
B5	Impairment Loss Allowance	Previously known as the loan loss allowance, the portion of the (B4) Gross Loan Portfolio that has been expensed (provisioned for) in anticipation of losses due to default. This item represents the cumulative value of the impairment losses on loans less the cumulative value of loans written off.	

Ref.	Account Name	Definition	Calculation
		Express this item as a contra asset account and state it as a negative number. ^a	
B6	Interest Receivable on Loan Portfolio	Interest receivable on the (B5) Gross Loan Portfolio net of any expense to reduce accrued interest if the collection of the accrued interest is considered uncertain (see I11).	
B7	Accounts Receivable and Other Assets	Accounts receivable, notes receivables, and other receivables, net of any allowances for doubtful or uncollectible accounts. This includes all receivables other than client loan accounts, including employee loans and interest receivable on non-funding liabilities such as mortgages.	
B8	Other (Long-term) Investments	Include investments that have a fixed maturity or payments that the MFI intends to hold to maturity. This item may include bonds or shares that the MFI plans to hold for 12 months or more or other financial assets available for sale but not considered loans, receivables, or (B2) Trade Investments.	
B9	Net Fixed Assets	The cost or value of all physical property and other tangible assets that the MFI currently uses less accumulated depreciation expense.	B10 + B11
B10	Fixed Assets	The cost or value of all physical property and property improvements, furniture, and equipment that the MFI currently uses (including all donated equipment that the MFI owns). Fixed assets may also include other tangible assets, such as software. Intangible assets (those assets that have no physical properties but represent a future economic benefit to the MFI) may be included here if permitted by local accounting standards. ^b	

^a Some MFIs may increase (B5) Impairment Loss Allowance by taking a direct charge to (B26) Retained Earnings or some other account. For transparency, MFIs should create the Impairment Loss Allowance through (I13) Impairment Losses on Loans.

^b Because IFRS is strict in its definition of intangible assets, MFIs are encouraged to review IFRS guidelines before creating goodwill or other intangible assets on their books.

Ref.	Account Name	Definition	Calculation
B11	Accumulated Depreciation and Amortization	The sum of all depreciation expenses for (B10) Fixed Assets and the amortization of other tangible assets that have not yet been retired and removed from the balance sheet. Accumulated depreciation represents the reduction in value of Fixed Assets corresponding to the assets' remaining useful life. Amortization of intangible assets may be included here if the practice is permitted by local accounting standards. This contra asset account is expressed as a negative number.	
B12	Total Assets	The value of all asset accounts net of all contra asset accounts.	B1 + B2 + B3 + B6 + B7 + B8 + B9
Liabilities			
B13	Demand Deposits	Deposits mobilized from the general public and members that the MFI is liable to repay on demand. This includes any current, checking, or savings accounts that are payable on demand.	
B14	Short-term Time Deposits	Deposits mobilized from the general public and members that the MFI is liable to repay on a fixed date within 12 months of the statement date. This includes certificates of deposit or fixed term deposits. It also includes compulsory deposit accounts that are held by the MFI as a condition for a current or future loan or other service, such as cash collateral accounts or guarantee deposits. ^c	
B15	Short-term Borrowings	The principal balance due within or at 12 months from the statement date for all funds received through a loan or other contractual debt agreement. This includes loans, lines of credit, and overdraft facilities with outstanding balances, as well as the portion of long-term obligations payable within 12 months.	
B16	Interest Payable on Funding Liabilities	Interest accrued on liability accounts that fund financial operations, including (B13), (B14), (B15), (B18), and (B19). It does not include borrowing for purchasing or improving real estate or other fixed assets such as vehicles. This item is included in (B17).	
B17	Accounts Payable and Other Short-term Liabilities	Other short-term liabilities due within 12 months, including tax and salary liabilities, payroll withholdings, and other accounts payable. It should also include any short-term portion of deferred revenue. ^d	
B18	Long-term Time Deposits	Deposits mobilized from the general public and members that the MFI is liable to repay with a fixed maturity date greater than 12 months from the statement date.	
B19	Long-term Borrowings	The principal balance due in more than 12 months for all funds received through a loan or other contractual agreement and all subordinated debt. ^e This account should not include long-term funds for which no set repayment date exists, such as long-term subsidized loans from related companies or public agencies (see B20).	
B20	Other Long-term Liabilities	Other long-term liabilities due in more than 12 months, including long-term deferred revenue, pension liabilities, and liabilities that do not directly fund the financial operations of the MFI portfolio, such as mortgages on real estate and other loans for fixed asset purchases. Long-term concessional funding for which no repayment date is set or anticipated, but is not a grant, is also included in this account.	

^c MFIs are encouraged to distinguish compulsory and voluntary deposits in subaccounts to (B14) for analysis.

^d For MFIs, deferred revenue is primarily donations or grants received that have not yet been used for a future or specific purpose. If the funds are contractually short-term (that is, must be spent in the coming 12 months), then they should be included in (B17) Accounts Payable and Other Short-term Liabilities. If they must be spent for the specific purpose in more than 12-months time or the time frame is unspecified, deferred revenue should be included in (B20) Other Long-term Liabilities.

^e If the MFI can distinguish between the short- and long-term portions of subordinated debt, these portions should be correctly divided between (B15) and (B19). If not, all subordinated debt should be in (B19) Long-term Borrowings.

Ref.	Account Name	Definition	Calculation
B21	Total Liabilities	The total value of all liability accounts.	B13 + B14 + B15 + B16 + B17 + B18 + B19 + B20
Equity			
B22	Paid-In Capital	The value of capital paid by shareholders or members net of any shares repurchased or capital repaid.	
B23	Donated Equity	The total value of all (I28) Donations received and recognized as revenue.	B24 + B25
B24	Prior Years	The cumulative value of (I28) Donations from prior fiscal years.	
B25	Current Year	The value of (I28) Donations from the current fiscal year.	
B26	Retained Earnings	The total value of (I27) Net Income (After Taxes and Before Donations) from current and prior periods, net of any dividends paid to shareholders or members.	B27 + B28
B27	Prior Years	The cumulative value of (I27) Net Income (After Taxes and Before Donations) from prior periods, net of dividends paid to shareholders or members.	
B28	Current Year	The value of (I27) Net Income (After Taxes and Before Donations) from the current fiscal year.	
B29	Reserves	Reserves such as those imposed by law, statute, or Board decision.	
B30	Other Equity Accounts	Other equity accounts, including all revaluations and adjustments. For MFIs required to use inflation-based accounting, this account should be used to offset the Net Inflation Expense. The MFI should disclose any substantial item in this account.	
B31	Adjustments to Equity	Adjustments to the balance sheet to account for subsidized funds, in-kind subsidies, and inflation. For more information on Adjustments to Equity, see chapter 3.	
B32	Total Equity	Total value of all equity accounts.	B22 + B23 + B26 + B29 + B30 + B31

2.4 CASH FLOW STATEMENT

As its name states, the cash flow statement is a flow statement that represents the inflows and outflows of cash during a specified period. Of the three main financial statements, the cash flow (or *sources and uses of funds*) is the statement MFIs are least likely to create. A monthly cash flow statement is a valuable liquidity management tool, and without sufficient cash, MFIs cannot disburse loans, pay employees, and settle debts.

The cash flow statement summarizes each transaction or event that causes cash to increase (the sources of cash) or decrease (the uses of cash). Increases in cash, however, are not sources; rather, the sources of cash are the events that cause the cash increase. Similarly, decreases in cash are not uses; the events causing cash to decrease are the uses. For example, the increase in the (B4) Gross Loan Portfolio is not the use of cash; rather, the use is the disbursement of loans to clients.

The sources of cash can include events that cause the following changes:

- A decrease in assets other than cash, such as receiving loan repayments from clients;

- An increase in liabilities, such as accepting a deposit or borrowing from a bank;
- An increase in (B22) Paid-In Capital, such as selling shares to investors or members; and
- An increase in retained earnings through generating (I31) Net Income (After Taxes and Donations).

The uses of cash can include events that cause the following changes:

- Increases in assets other than cash, such as making loans to clients;
- Decreases in liabilities, such as repaying a deposit or paying the principal on borrowed funds;
- Decreases in (B22) Paid-In Capital, such as repurchasing shares or reimbursing member shares; and
- Decreases in retained earnings through generating a net loss (after taxes and donations) or payment of dividends to shareholders.

A cash flow statement classifies these inflows and outflows of cash into the following three major categories:

- **Operating Activities**, the cash receipts and payments related to the MFI's ongoing provision of financial services, including lending and deposit services;
- **Investing Activities**, the cash receipts or outlays for acquiring or selling (B10) Fixed Assets or financial investments; and
- **Financing Activities**, the borrowing and repayment of borrowings, the sale and redemption of (B22) Paid-In Capital, and the payment of dividends.

For financial institutions, the distinction between operating activities and financing activities may be a bit confusing. Operating activities include most activities that would appear as (I21) Operating Income and (I16) Operating Expenses on the income statement, as well all lending activity that appears on a portfolio report. For example, accepting and repaying deposits is considered an operating activity because these actions are financial services, whereas borrowing is considered a financing activity. All interest paid on deposits and borrowings, however, is considered an operating activity. Table 2.5 presents examples of the items included in each of these categories.

Several accounts in a cash flow statement are similar to those in an income statement, particularly if an MFI uses cash accounting. For instance, (C1) Cash received from Income, Fees, and Commissions on Loan Portfolio is the same as (I2) Revenue Financial Revenue from Loan Portfolio if the MFI uses cash accounting. If an MFI accrues interest, these two accounts may not be the same.

TABLE 2.5: CLASSIFICATION OF CASH RECEIPTS AND PAYMENTS

Classification	Receipts	Payment
Operating Activities	Principal repayments Interest and fee receipts on the (B4) Gross Loan Portfolio and investments Other receipts for the provision of financial services Funds received from accepting deposits	Loan disbursements (B2) Purchase of Trade Investments Interest and fee payments Payment to Personnel or for (I18) Administrative Expenses Taxes paid Funds repaid to depositors
Investing Activities	Proceeds from the sale of an investment Proceeds from the sale of (B10) Fixed Assets	Purchase of (B8) Other Investments Purchase of (B10) Fixed Assets
Financing Activities	Funds received from borrowings Receipt of (B22) Paid-In Capital from the sale of shares or membership	Principal repaid on borrowings Repurchase of (B22) Paid-In Capital Payment of dividends

A cash flow statement can be constructed using the *direct method*, showing all the cash transactions in and out of the Cash and Due from Banks account (lines C1–C26 in table 2.6). Alternatively, it can be created through the *indirect method*, which deduces the movement of cash based on the changes in specific income statement and balance sheet accounts (lines C27–C50 in table 2.6). Both methods are presented in the following sections. Box 2.4 explains the differences between the two methods.

2.4.1 DIRECT CASH FLOW STATEMENT

The direct method for preparing a cash flow statement is the most intuitive of the methods. It reconstructs the income statement by tracing the movement of cash and adds other events not included on the income statement that have caused an inflow or outflow of cash.

Direct cash flow statements in table 2.6 (lines C1–C26) have many of the same accounts as indirect cash flow statements in table 2.8 (lines C27–C50). The cross-reference indicates which accounts are the same for both cash flow statements.

TABLE 2.6: SAMPLE DIRECT CASH FLOW STATEMENT

Ref.	X-Ref.	Term	From 1/1/2004 to 12/31/2004	From 1/1/2003 to 12/31/2003
Cash Flows from Operating Activities				
C1	I2^a	Cash Received from Interest, Fees, and Commissions on Loan Portfolio	16,403,668	8,847,498
C2	I5^a	Cash Received from Interest on Investments	1,597,830	1,003,556
C3	I6^a	Cash Received as Other Operating Revenue	325,400	215,680
C4	C31	Value of Loans Repaid	137,620,072	107,900,427
C5	I8^a	(Cash Paid for Financial Expenses on Funding Liabilities)	(939,719)	(810,692)
C6	I11^a	(Cash Paid for Other Financial Expenses)	(248,000)	(55,328)
C7	I16^a	(Cash Paid for Operating Expenses)	(13,522,473)	(7,426,274)
C8	I26^a	(Cash Paid for Taxes)	(760,816)	(732,306)
C9	C32, P2	(Value of Loans Disbursed)	(159,603,437)	(121,456,864)
C10	C33	Net (Purchase)/Sale of Trade Investments	16,484,658	3,406,301
C11	C34	Deposits/(Withdrawals) from Clients	2,393,010	1,030,868
C12		Cash Received/(Paid) for Other Operating Assets and Liabilities	(1,100,000)	(1,010,308)
C13	C37	Net Cash from Operating Activities	(1,349,808)	(9,087,441)
Cash Flows from Investing Activities				
C14	C38	Net (Purchase)/Sale of Other Investments	—	334,580
C15	C39	Net (Purchase)/Sale of Fixed Assets	(2,892,769)	(747,282)
C16	C40	Net Cash from Investing Activities	(2,892,769)	(412,702)
Cash Flows from Financing Activities				
C17	C41	Net Cash Received /(Repaid) for Short- and Long-term Borrowings	1,365,241	6,533,518
C18	C42	Issuance/(Repurchase) of Paid-In Capital	2,000,000	1,000,000
C19	C43	(Dividends Paid)	(500,000)	—
C20	I28^a, C44, B25	Donated Equity	4,582,000	3,442,986
C21	C45	Net Cash from Financing Activities	7,447,241	10,976,504
C22	I22^a, C46	Net Cash Received/(Paid) for Non-Operating Activities	(1,403,143)	(1,838,992)
C23	C47	Net Change in Cash and Due from Banks	1,801,521	(362,632)
C24	C48	Cash and Due from Banks at the Beginning of the Period	1,146,142	900,000
C25	C49	Exchange Rate Gains/(Losses) on Cash and Cash Equivalents	313,532	609,774
C26	C50	Cash and Due from Banks at the End of the Period	3,261,195	1,146,142

^a If an MFI uses cash accounting, these accounts will have the same value as the cross-referenced accounts. If the MFI uses accrual accounting, these values will not be the same as the cross-referenced account. In the example above, the MFI uses accrual-based accounting for financial revenue, financial expense, and operating expenses so that (C1), (C5), and (C7) are not the same value as their income statement references.

Table 2.7 provides line-by-line definitions of the information presented in the cash flow statement (Table 2.6) to clarify what each account represents.

TABLE 2.7: DIRECT CASH FLOW STATEMENT DETAIL			
Ref.	Account Name	Definition	Calculation
Cash Flows from Operating Activities			
C1	Cash Received from Interest, Fees, and Commissions on Loan Portfolio	The total value of all financial revenue <i>received in cash</i> from the (B4) Gross Loan Portfolio. If an MFI uses cash accounting, this account is the same as (I2) Financial Revenue from Loan Portfolio. It does not include fees described in (I6) Other Operating Revenue.	
C2	Cash Received from Interest on Investments	Total value of all financial revenue <i>received in cash</i> from (B2) Trade Investments and (B8) Other Investments. If an MFI uses cash accounting, this account is the same as (I5) Financial Revenue from Investments.	
C3	Cash Received as Other Operating Revenue	Total value of all other operating revenue <i>received in cash</i> for the provision of financial services. If an MFI uses cash accounting, this account is the same as (I6) Other Operating Revenue.	
C4	Value of Loans Repaid	The value of all loan principals repaid <i>in cash</i> by the MFI's clients during the period. This includes payments related to current and past-due loans as well as recoveries of written-off loans.	
C5	(Cash Paid for Financial Expenses on Funding Liabilities)	The total value of all interest and fee expense <i>paid in cash</i> on deposits and borrowings. If the MFI uses cash accounting, this account is the same as (I8) Financial Expense on Funding Liabilities.	
C6	(Cash Paid for Other Financial Expenses)	The total value of any other financial expense <i>paid in cash</i> . Most MFIs' other financial expenses are non-cash (such as inflation expense), and are therefore not included in this account.	
C7	(Cash Paid for Operating Expenses)	The total value of personnel and administrative expense <i>paid in cash</i> to support the provision of financial services. This account does not include non-cash expenses, such as depreciation. If the MFI uses cash accounting, this account is the same as (I17) Personnel Expenses plus (I20) Other Administrative Expenses.	
C8	(Cash Paid for Taxes)	The total value of taxes <i>paid in cash</i> . This includes taxes paid on net income or other measures of revenue or profit. Taxes related to employment or purchases, such as a value-added tax, are included in (I16) Operating Expenses. If the MFI uses cash accounting, this account is the same as (I26) Taxes.	
C9	(Value of Loans Disbursed)	The value of all loans disbursed <i>in cash</i> during the period. This account is the same as (P2).	
C10	Net (Purchase)/Sale of Trade Investments	Cash paid for the purchase (net of cash received for the sale) of (B2) Trade Investments. If purchases exceed sales, this number will be negative. These purchases may include certificates of deposit, including interest-bearing deposits, and treasury bills, and because they are typically used in liquidity management, they are therefore considered an operating activity. This account should be the same as the change in (B2) Trade Investments $(B2^0 - B2^1)$.	
C11	Deposits/(Withdrawals) from Clients	Cash deposits/(withdrawals) made by the institution's clients as (B13) Demand Deposits or (B14) Short-term Time Deposits, or (B18) Long-term Time Deposits held at the institution, calculated as $(B13^1 - B13^0) + (B14^1 + B14^0) + (B18^1 - B18^0)$.	

Ref.	Account Name	Definition	Calculation
C12	Cash Received/(Paid) for Other Operating Assets and Liabilities	Any cash receipt of payment that increases (B7) Accounts Receivable and Other Assets or (B17) Accounts Payable and Other Short-term Liabilities and (B20) Other Long-Term Liabilities. Examples include disbursements of repayment of advances or loans to employees and cash payouts of pensions. This account does not include payments for services that increase assets—such as prepaid rent or insurance—that are included in (C7) Cash Paid for Operating Expenses.	
C13	Net Cash from Operating Activities	Sum of all cash flows arising from the principal revenue-producing activities of the institution and other activities that are neither investing nor financing activities.	C1 + C2 + C3 + C4 + C5 + C6 + C7 + C8 + C9 + C10 + C11 + C12
Cash Flows from Investing Activities			
C14	Net (Purchase)/Sale of Other Investments	Cash paid for the purchase (net of cash received from the sale) of (B8) Other Investments. If purchases exceed sales, this will be a negative number. This account may include bonds or shares that an institution plans to hold for longer than one year. This number should be the same as the change in (B8) Other Investments (B8 ⁰ – B8 ¹).	
C15	Net (Purchase)/Sale of Fixed Assets	Cash payments to acquire property, buildings, and equipment less any cash proceeds from the sale of property, buildings, and equipment. This number should be the same as the change in (B10) Fixed Assets (B10 ⁰ – B10 ¹).	
C16	Net Cash from Investing Activities	Sum of all cash flows arising from the acquisition and disposal of long-term assets and other investments not included in cash equivalents.	C14 + C15
Cash Flows from Financing Activities			
C17	Net Cash Received/(Repaid) for Short- and Long-term Borrowings	Cash proceeds/payments from borrowing or issuing notes. This number should be the same as the change in (B15) Short-term Borrowings and (B19) Long-term Borrowings, [(B15 ¹ – B15 ⁰) + (B19 ¹ – B19 ⁰)].	
C18	Issuance/(Repurchase) of Paid-In Capital	Cash proceeds (payments) from issuing (repurchasing) shares or other equity instruments.	
C19	(Dividends Paid)	Amount of dividends distributed to shareholders or members <i>in cash</i> . These distributions should be made from (B26) Retained Earnings.	
C20	Donated Equity	The value of donations <i>received in cash</i> from the current period.	
C21	Net Cash from Financing Activities	Sum of all cash flows from activities that result in changes in the size and composition of the funding liabilities and equity of the institution.	C17 + C18 + C19 + C20
C22	Net Cash Received/(Paid) for Non-Operating Activities	Sum of all cash received and paid for non-operating activities.	
C23	Net Change in Cash and Due from Banks	Sum of cash flows from operating, investing, financing, and non-operating activities.	C13 + C16 + C21 + C22
C24	Cash and Due from Banks at the Beginning of the Period	Cash on hand, near cash, and other highly liquid instruments paying little or no interest at the beginning of the period. This number is the same as (B1) Cash and Due from Banks for the end of the previous period.	

Ref.	Account Name	Definition	Calculation
C25	Exchange Rate Gains/(Losses) on Cash and Cash Equivalents	Unrealized gains and losses arising from the changes on Cash and Cash Equivalents in foreign currency exchange rates.	
C26	Cash and Due from Banks at the End of the Period	Cash on hand, near cash, and other highly liquid instruments paying little or no interest at the end of the period. This number is the same as (B1) Cash and Due from Banks for the end of the current period.	C23 + C24 + C25

2.4.2 INDIRECT CASH FLOW STATEMENT

Box 2.3: Income Statement versus Cash Flow Statement

The primary differences between the income statement and the cash flow statement are as follows:

- The cash flow statement excludes or eliminates the effects of non-cash expenses (such as Depreciation and Amortization or Impairment Losses on Loans); and
- The cash flow statement includes cash transactions and events that are neither revenue nor expense, but increase or decrease assets or liabilities (such as loans disbursed or purchases of fixed assets).

If an MFI uses cash accounting, many of the revenue and expense accounts of the income statement have the same value as the operating sources and uses of cash on the cash flow statement. If an MFI uses accrual accounting, many of the revenue and expense accounts will be slightly more or less than the cash flow statement accounts because the MFI recognized revenue and expenses before they are actually received or paid.

The indirect method is deductive. It begins with the (I28) Net Income (After Taxes and Before Donations) and then adds back all other sources of cash (such as loan payments) and subtracts all other uses (such as loan disbursements) that can be deducted by changes in balance sheet accounts.

One tricky aspect of a deductive cash flow statement is adding back “non-cash” expenses, such as (I13) Impairment Losses on Loans³ and (I19) Depreciation and Amortization. These are expenses that appear on the income statement, but are not the result of any cash event; because no cash flowed into or out of the MFI, the amount of these expenses must be added back to the cash flow statement. Table 2.8 shows a sample indirect cash flow statement.

³ Impairment Losses on Loans contains both a “cash event,” namely the Value of Loans Recovered, and a “non-cash event,” the Provision for Loan Impairment. However, the Value of Loans Recovered is already included in the indirect cash flow statement under Value of Loans Repaid. Therefore, the entire Impairment Losses on Loans is added back.

TABLE 2.8: SAMPLE INDIRECT CASH FLOW STATEMENT

Ref.	X-Ref.	Account Name	From 1/1/2004 to 12/31/2004	From 1/1/2003 to 12/31/2003
Cash Flows from Operating Activities				
C27	I25^a	Net Income (Before Taxes and Donations)	2,176,965	2,872,482
C28	I19	Depreciation and Amortization	1,597,669	317,057
C29	I13	Impairment Losses on Loans	439,972	297,368
C30	I26^a, C8	(Cash Paid for Taxes)	(760,816)	(732,306)
C31	C4	Value of Loans Repaid	137,620,072	107,765,921
C32	C9, P2	(Value of Loans Disbursed)	(159,603,437)	(121,456,864)
C33	C10	(Increase)/Decrease in Trade Investments	16,484,658	3,406,301
C34	C11	Increase/(Decrease) in Deposits	2,393,010	1,030,868
C35		(Increase)/Decrease in Receivables and Other Assets	(1,250,000)	(1,465,301)
C36		Increase/(Decrease) in Payables and Other Liabilities	(447,900)	(1,122,967)
C37	C13	Net Cash from Operating Activities	(1,349,808)	(9,087,441)
Cash Flows from Investing Activities				
C38	C14	(Increase)/Decrease in Other Investments	—	334,580
C39	C15	(Increase)/Decrease in Book Value of Gross Fixed Assets	(2,892,769)	(747,282)
C40	C16	Net Cash from Investing Activities	(2,892,769)	(412,702)
Cash Flows from Financing Activities				
C41	C17	Increase/(Decrease) in Short- and Long-term Borrowings	1,365,241	6,533,518
C42	C18	Increase/(Decrease) in Paid-In Capital	2,000,000	1,000,000
C43	C19	(Dividends Paid)	(500,000)	—
C44	C20, I28^a, B25	Donated Equity	4,582,000	3,442,986
C45	C21	Net Cash from Financing Activities	7,447,241	10,976,504
C46	I22^a, C22	Net Cash Received/(Paid) for Non-Operating Activities	(1,403,143)	(1,838,992)
C47	C23	Net Change in Cash and Due from Banks	1,801,521	(362,632)
C48	C24	Cash and Due from Banks at the Beginning of the Period	1,146,142	900,000
C49	C25	Effect of Exchange Rate Changes on Cash and Cash Equivalents	313,532	608,774
C50	C26, B1	Cash and Due from Banks at the End of the Period	3,261,195	1,146,142

^a If an MFI uses cash accounting, these accounts will have the same value as the cross-referenced accounts. If the MFI uses accrual accounting, these values will not be the same as the cross-referenced account.

Table 2.9 provides line-by-line definitions of the information presented in the indirect cash flow statement (table 2.8) to clarify what each account represents. Many of the accounts used for the indirect cash flow statement are the same as those in the direct cash flow statement, and the definitions can be found in table 2.7. As noted below, the cash flow statement contains many links and shares some accounts with both income statement and balance sheet accounts.

TABLE 2.9: INDIRECT CASH FLOW STATEMENT DETAIL			
Ref.	Account Name	Definition	Calculation
Cash Flows from Operating Activities			
C27	Net Income (Before Taxes and Donations)	Same as (I25) Net Income (Before Taxes and Donations).	
C28	Depreciation and Amortization	Same as (I19) Depreciation and Amortization Expense for the period. This non-cash expense represents the theoretical decrease in value of a Fixed Asset.	
C29	Impairment Losses on Loans	Same as (I13) Impairment Losses on Loans.	
C30	Cash Paid for Taxes	Same as (C8) Cash Paid for Taxes	
C31	Value of Loans Repaid	Same as (C4) Value of Loans Repaid.	
C32	(Value of Loans Disbursed)	Same as (C9) Value of Loans Disbursed.	
C33	(Increase)/Decrease in Trade Investments	Same as (C10) Net (Purchase)/Sale of Trade Investments.	
C34	Increase/(Decrease) in Deposits	Same as (C11) Deposits/ (Withdrawals) from clients.	
C35	(Increase)/Decrease in Receivables and Other Assets	Change in the sum of (B6) Interest Receivable and (B7) Accounts Receivable and Other Assets from the previous period, calculated as $(B6^0 - B6^1) + (B7^0 - B7^1)$.	
C36	Increase/(Decrease) in Payables and Other Liabilities	Change in the sum of (B16) Interest Payable on Funding Liabilities, (B17) Accounts Payable and Other Short-term Liabilities and (B20) Other Long-term Liabilities from the previous period, calculated as $(B16^1 - B16^0) + (B17^1 - B17^0) + (B20^1 - B20^0)$.	
C37	Net Cash from Operating Activities	Same as (C13) Net Cash from Operating Activities.	C27 + C28 + C29 + C30 + C31 + C32 + C33 + C34 + C35 + C36
Cash Flows from Investing Activities			
C38	(Increase)/Decrease in Other Investments	Same as (C14) Net (Purchase)/Sale of Other Investments.	
C39	(Increase)/Decrease in the Book Value of Gross Fixed Assets	Same as (C15) Net (Purchase)/Sale of Net Fixed Assets.	
C40	Net Cash from Investing Activities	Same as (C16), Net Cash from Investing Activities.	C38 + C39
C41	Increase/(Decrease) in Short- and Long-term Borrowings	Same as (C17) Net Cash Received/ (Repaid) for Short- and Long-term Borrowings.	
C42	Increase/(Decrease) in Paid-In Capital	Same as (C18) Issuance/ (Repurchase) of Paid-In Capital.	

Ref.	Account Name	Definition	Calculation
C43	(Dividends Paid)	Same as (C19) Dividends Paid.	
C44	Donated Equity	Same as (C20) Donated Equity.	
C45	Net Cash from Financing Activities	Same as (C21) Net Cash from Financing Activities.	C41 + C42 + C43 + C44
C46	Net Cash Received/(Paid) for Non-Operating Activities	Same as (C22) Net Cash Received/ (Paid) for Non-Operating Activities.	
C47	Net Change in Cash and Due from Banks	Sum of cash flows from operating, investing, financing, and non-operating activities.	C37 + C40 + C44 + C46
C48	Cash and Due from Banks at the Beginning of the Period	Cash on hand, near cash, and other highly liquid instruments paying little or no interest at the beginning of the period. This account is the same as (B1) Cash and Due from Banks for the end of the previous period.	
C49	Effect of Exchange Rate Changes on Cash and Cash Equivalents	Unrealized gains and losses arising from the changes on Cash and Cash Equivalents in foreign currency exchange rates.	
C50	Cash and Due from Banks at the End of the Period	Cash on hand, near cash, and other highly liquid instruments paying little or no interest at the end of the period. This account is the same as (B1) Cash and Due from Banks for the end of the current period.	C47 + C48 + C49

2.5 PORTFOLIO REPORT AND ACTIVITY REPORT

A portfolio report and activity report link the loan portfolio information of the three previously discussed statements—income statement, balance sheet, and cash flow. The purpose of the portfolio report is to represent in detail an MFI’s microlending activity, present the quality of the loan portfolio, and provide detail on how the MFI has provisioned against potential losses. Unlike other statements, the design of this report varies from MFI to MFI. The content, however, should be consistent and must include the following:

- Portfolio activity information,
- Movement in the Impairment Loss Allowance, and
- A Portfolio Aging Schedule.

The closely linked Movement in Impairment Loss Allowance and the Portfolio Aging Schedule are related to an MFI’s assessment of the default risk associated with its loan portfolio. As mentioned in section 2.3.2, (B5) Impairment Loss Allowance is a contra asset account that reduces the value of the (B4) Gross Loan Portfolio. The value of that allowance is determined by first creating a Portfolio Aging Schedule.

All MFIs should have a policy for calculating and creating an Impairment Loss Allowance and writing off loans. The generally accepted method for MFIs to assess default risk is based on the timeliness of principal payments on loans. The assumption is that the longer a loan remains past due, the more at risk the outstanding balance of the loan will become. This remaining outstanding balance is referred to as the *portfolio at risk*. Understanding the difference between *arrears* and *portfolio at risk* is important. Arrears measure the sum of all past due payments, whereas portfolio at risk is the

total value of loans outstanding that have one or more past due payments—a much larger amount. The word *delinquency* may refer to either, which leads to confusion.

TABLE 2.10: SAMPLE PORTFOLIO REPORT

Ref.	X-Ref.	Account Name	From 1/1/2004 to 12/31/2004		From 1/1/2003 to 12/31/2003	
			Number of Loans	Value of Portfolio	Number of Loans	Value of Portfolio
Portfolio Activity						
P1, P2	C9, C32	Loans Disbursed	32,148	159,603,437	26,990	121,456,864
P3, P4	B4	Loans Outstanding	14,587	55,609,309	11,183	34,701,961
Movement in Impairment Loss Allowance						
P5⁰	B5⁰	Impairment Loss Allowance, Beginning of Period		1,230,473		933,150
P5¹	B5¹	Impairment Loss Allowance, End of Period		1,270,673		1,230,473
P6, P7		Loans Written Off	147	448,954	0	0
P8	I14	Provision for Loan Impairment		489,154		297,368
P9, P10		Loans in Recovery or Recovered	14	49,182	53	134,506
Portfolio Aging Schedule						
			Number of Loans	Value of Portfolio	Loss Allowance Rate (%) ^a	Impairment Loss Allowance
P11, P12		Current Portfolio	8,729	51,155,003	0	-
P13, P14		Portfolio at Risk 1 to 30 days	2,110	2,224,372	10	222,437
		Portfolio at Risk 31 to 60 days	2,022	1,112,186	25	278,047
		Portfolio at Risk 61 to 90 days	927	556,093	50	278,047
		Portfolio at Risk 91 to 180 days	556	166,828	75	125,121
		Portfolio at Risk more than 180 days	204	244,681	100	244,681
P15, P16		Renegotiated Portfolio 1–30 days	28	55,609	50	27,805
		Renegotiated Portfolio > 30 days	11	94,536	100	94,536
P3, P4	B4	Loans Outstanding	14,587	55,609,309		1,270,673

^a The aging categories and loss allowance rates presented in this table are shown as an example rather than a recommendation. MFIs should set the rates according to their needs and historical loss rates as well as local regulatory requirements, if any.

MFIs create a Portfolio Aging Schedule by segregating their loans into groups based on their “age,” or how many days have passed since the first payment was missed. Each of these categories is multiplied by a loss allowance (or provisioning) rate, which represents the perceived chance of the loan not being repaid. The portfolio at risk for each “age” is then multiplied by the appropriate loss allowance rate. The sum of these calculations is the amount the MFI should set aside in the

Impairment Loss Allowance. If the existing Impairment Loss Allowance is less than what is required, the MFI will need to increase it, usually monthly or quarterly, by (P8) Provision for Loan Impairment.

MFI's should also have a policy on "writing off" loans. Both the Gross Loan Portfolio and the Impairment Loss Allowance are reduced by the outstanding balance of the loan for the amount of the write-off, which reduces the MFI's total assets. This action is the financial representation of the management's belief that the loan is unlikely to be repaid. Of course, the MFI should continue to seek to recover these loans until all legal and other efforts have failed. If the write-off exceeds the value of the Impairment Loss Allowance, the MFI must first increase the Impairment Loss Allowance by increasing (I13) Impairment Losses on Loans before reducing the Gross Loan Portfolio and the Impairment Loss Allowance. Table 2.10 shows a sample portfolio report.

Table 2.11 provides line-by-line definitions of the information presented in the portfolio report (Table 2.10) to clarify what each line item represents.

Ref.	Account Name	Definition	Calculation
P1	Number of Loans Disbursed	The number of all loans disbursed during the period. For MFIs using a group lending methodology, the number of loans should refer to the number of individuals receiving loans as part of a group or as part of a group loan. If one person receives more than one loan in the period, count each loan.	
P2	Value of Loans Disbursed	Same as (C9) Value of Loans Disbursed.	
P3	Number of Loans Outstanding	The number of loans in the (B4) Gross Loan Portfolio. For MFIs using a group lending methodology, the number of loans should refer to the number of individuals receiving loans as part of a group or as part of a group loan.	P11 + P13 + P15
P4	Value of Loans Outstanding	Same as the (B4) Gross Loan Portfolio.	P12 + P14 + P16
P5	Impairment Loss Allowance	Same as (B5) Impairment Loss Allowance.	
P6	Number of Loans Written Off	The number of loans that have been recognized as uncollectible for accounting purposes.	
P7	Value of Loans Written Off	The value of loans that have been recognized as uncollectible for accounting purposes. A write-off is an accounting procedure that removes the outstanding balance of the loan from the (B4) Gross Loan Portfolio and (B5) Impairment Loss Allowance. Thus, the write-off does not affect the (B3) Net Loan Portfolio, (B12) Total Assets, or any equity account. If the Impairment Loss Allowance is insufficient to cover the amount written off, the excess amount will result in an additional Impairment Losses on Loans.	
P8	Provision for Loan Impairment	The same as (I14) Provision for Loan Impairment. This number is calculated by subtracting the beginning (P5 ⁰) Impairment Loss Allowance from the required (P5 ¹) Impairment Loss Allowance and adding the (P7) Value of Loans Written-off.	P5 ¹ - P5 ⁰ + P7
P9	Number of Loans in Recovery or Recovered	The number of loans previously written off that has been collected. This number includes loans paid in full and loans on which partial collection has been made in the past year.	
P10	Value of Loans Recovered	Total value of principal recovered on all loans previously written off. This number includes partially recovered loans and those loans recovered in full. These recoveries are booked as part of (I14) Value of Loans Recovered.	
P11	Number of Loans in Current Portfolio	The number of loans outstanding that do not have installments past due more than one day. This number does not include renegotiated loans.	

Ref.	Account Name	Definition	Calculation
P12	Value of Current Portfolio	The outstanding value of loans that have no installments past due. This item includes no accrued interest on the loans.	
P13	Number of Loans at Risk more than XX days	The number of loans outstanding that have one or more installments of principal past due more than XX days. This number does not include renegotiated loans.	
P14	Value of Portfolio at Risk more than XX days	The value of loans outstanding that have one or more installments of principal past due more than XX days. This item includes the entire unpaid balance, including both past due and future installments, but not accrued interest. It does not include renegotiated loans. The portfolio at risk is usually divided into categories according to the number of days that have passed since the first missing principal installment.	
P15	Number of Renegotiated Loans	The number of loans outstanding that have been either restructured to modify the original loan terms and repayment schedule or refinanced through the disbursement of subsequent loans to replace or pay off the original loans.	
P16	Value of Renegotiated Loans	The principal balance of loans outstanding that have been either restructured to modify the original loan terms and repayment schedule or refinanced through the disbursement of subsequent loans to replace or pay off the unpaid original loans.	

2.6 NON-FINANCIAL DATA REPORT

In addition to the information collected in the preceding reports, important Operational and Macroeconomic data must be captured to calculate key financial ratios in this Framework. Because this Framework seeks to provide tools that will give managers and others a complete picture of an MFI's financial condition, the non-financial data report includes data on products and clients served by the institution, as well as data on the resources used to serve them. Table 2.12 shows a sample non-financial data report. Managers may want to expand this report to include other items of interest.

TABLE 2.12: SAMPLE NON-FINANCIAL DATA REPORT

	Account Name	As of 12/31/2004	As of 12/31/2003
Operational Data			
N1	Number of Active Clients	14,658	11,458
N2	Number of New Clients during Period	7,584	7,589
N3	Number of Active Borrowers	13,472	10,857
N4	Number of Voluntary Depositors	752	254
N5	Number of Deposit Accounts	752	254
N6	Number of Savers Facilitated	13,005	11,023
N7	Number of Personnel	115	89
N8	Number of Loan Officers	75	48
Macroeconomic Data			
N9	Inflation Rate	5.6%	4.3%
N10	Market Rate for Borrowing	9.5%	8.6%
N11	Exchange Rate (Local Currency: U.S. Dollar, Euro, or other)	48.0	45.0
N12	Gross National Income (GNI) per capita	12,000.0	12,000.0

Table 2.13 provides line-by-line definitions of the information presented in the non-financial data report (Table 2.12) to clarify what each line item represents.

TABLE 2.13: NON-FINANCIAL DATA REPORT DETAIL

Ref.	Account Name	Definition
Operational Data		
N1	Number of Active Clients	The number of active borrowers, depositors, and other clients who are currently accessing any of the MFI's financial services; i.e., they have a loan, deposit, and/or insurance account that is active as of the report date. Individuals who access multiple services with an MFI should be counted as a single client. Individuals who are not currently receiving services are not included. Neither borrowers whose loans have been written off nor depositors who have not had a deposit, withdrawal, or interest earned in the past 12 months are considered to be active.
N2	Number of New Clients during period	The number of clients who did not have an active account at the beginning of the period but do have an active account at the end of the period.
N3	Number of Active Borrowers	The number of individuals who currently have an outstanding loan balance with the MFI or are primarily responsible for repaying any portion of the (B4) Gross Loan Portfolio. Individuals who have multiple loans with an MFI should be counted as a single borrower.
N4	Number of Voluntary Depositors ^a	The number of individuals who currently have funds on deposit with the MFI on a voluntary basis; i.e., they are not required to maintain the deposit account to access a loan. This number applies only to deposits held by an MFI, not to those deposits held in other institutions by the MFI's clients. The number should be based on the number of individuals rather than the number of groups. A single deposit account may represent multiple depositors.
N5	Number of Deposit Accounts	The number of deposit accounts, both voluntary and compulsory, opened at the MFI whose balances the institution is liable to repay. The number should be based on the number of individual accounts rather than on the number of groups.
N6	Number of Savers Facilitated ^b	The total number of individuals with savings accounts in other institutions that an MFI has facilitated but is not liable to repay. These savings do not appear on the MFI's balance sheet. Many MFIs work with third parties, usually a commercial bank or the borrowing group itself, to enable their borrower clients to maintain savings accounts which may or may not be used as collateral by the MFI.
N7	Number of Personnel	The number of individuals who are actively employed by an MFI. This number includes contract employees or advisors who dedicate a substantial portion of their time to the MFI, even if they are not on the MFI's employee roster. This number should be expressed as a full-time equivalent.
N8	Number of Loan Officers	The number of personnel whose main activity is to manage a portion of the (B4) Gross Loan Portfolio directly. A loan officer is a staff member of record who is directly responsible for arranging and monitoring client loans. The term "loan officer" refers to field personnel or line officers who interact with the client, not to administrative staff or analysts who process loans without direct client contact. ^c Loan officers include contract employees who may not be part of permanent staff but are contracted on a regular basis in the capacity of loan officers. This number should be expressed as a full-time equivalent.

^a Credit unions and cooperatives are frequently required to refer to deposits as "savings." Regardless of the term used, the definition should be the same.

^b This line is useful for non-deposit-taking MFIs that work with savings groups or local banks to provide access to savings. Include both compulsory and voluntary savers.

^c MFIs frequently have supervisors whose sole responsibility is to monitor loan officers. Supervisors are not to be considered loan officers unless they also have their own portfolio of active clients. For example, if a supervisor spends 50 percent of her time managing her own clients, she is considered a 0.5 loan officer on a full-time equivalent basis.

Ref.	Account Name	Definition
Macroeconomic Data		
N9	Inflation Rate	The estimated rate at which the local cost of goods and services increases. Although many measurements exist for inflation, in this Framework the inflation rate should be taken from the International Monetary Fund (IMF) report, line 64x. This rate can also be available at the Microfinance Information eXchange (www.themix.org).
N10	Market Rate for Borrowings	As a minimum proxy for this rate, the Framework recommends using the Discount rate from the IMF report, line 60. This item is the rate at which the central banks lend to deposit-taking institutions for liquidity purposes. ^d This rate and other Lending Rates are available at the Microfinance Information eXchange (www.themix.org).
N11	Exchange Rate	The official exchange rate between the local currency and the reference currency at the end of the period. For current and historical exchange rates, visit OANDA, the Currency Site at www.oanda.com .
N12	GNI per capita	GNI per capita (formerly gross national product [GNP] per capita) is the gross national income, converted to U.S. dollars using the World Bank Atlas method, divided by the midyear population. GNI is the sum of value added by all resident producers plus any product taxes (less subsidies) not included in the valuation of output plus net receipts of primary income (compensation of employees and property income) from abroad. This rate is available at the Microfinance Information eXchange (www.themix.org).

^d The Discount Rate is often slightly more than the three-month certificate of deposit rate at which banks may raise money, but lower than the “Prime Rate,” at which banks lend to their best clients. The MFI may want to use another local rate at which the MFI might borrow.

2.7 FINANCIAL STATEMENTS IN PERSPECTIVE

The financial statements and reports presented in this chapter include the minimum of information necessary to present accurately an MFI’s activities and results. Every item is also necessary for managers to analyze the MFI’s performance and condition and to create performance monitoring reports for themselves and others. As mentioned in the introduction to this chapter, managers may want to add subaccounts to financial statements or additional data items to the Non-Financial Data Report. As a rule, additions should be made only when the account or data item is material—that is, significant or noteworthy.

With practice, managers, board members and others will begin to understand the links between the different financial statements and how a change in one account will affect another account on a different statement. A brief explanation of these linkages is included in Box 2.4.

Communicating less (but more meaningful) information is sometimes better than providing detailed information without explanation.⁴ Executive summaries, narratives, and footnotes are vital to making financial statements transparent and accessible to non-financial readers and financial analysts alike. An example of financial statements with accompanying notes will be provided in annex D.⁵

⁴ Anita Campion, 1998, Current Governance Practices of Microfinance Institutions, Conference Paper No. 4, (Washington, D.C.: The MicroFinance Network), 20. http://www.accion.org/pubs/micro_pubs_list.asp.

⁵ See Richard Rosenberg et al., 2003, Microfinance Consensus Guidelines: Financial Disclosure Guidelines for Microfinance Institutions (Washington, D.C.: CGAP/The World Bank Group). http://www.cgap.org/docs/Guideline_disclosure.pdf. The CGAP Disclosure Guidelines are not really about creating more detailed financial statements. They are intended as absolute minimum information requirements.

Box 2.4: How Financial Statements Are Linked

The financial statements used in this Framework are linked. Managers should learn the primary connections among the statements. Understanding these linkages can also be helpful when analyzing the statements. The matrix below highlights the main links among the sample statements used throughout this chapter.

Income Statement (Table 2.1)	Balance Sheet (Table 2.3)	Cash Flow Statement (Tables 2.6 and 2.8)	Portfolio report (Table 2.10)	Relationship
(I14) Provision for Loan Impairment	(B5) Impairment Loss Allowance		(P7) Value of Loans Written Off	$B5^1 = B5^0 + I14^1 - P7^1$
(I19) Depreciation and Amortization Expense	(B11) Accumulated Depreciation and Amortization	(C28) Depreciation and Amortization		$B11^1 = B11^0 + I19^1$
(I28) Donations	(B25) Donated Equity, Current Year	(C20, C44) Donated Equity		$B24^1 = B24^0 + I28^0$
(I27) Net Income (After Taxes and Before Donations)	(B28) Retained Earnings, Current Year			$I27 = B28$
	(B1) Cash and Due From Banks	(C23) Net Change in Cash and Due from Banks; (C25) Exchange Rate Gains/(Losses) on Cash and Cash Equivalents		$B1^1 = B1^0 + C23 + C25$
	(B4) Gross Loan Portfolio	(C9) Value of Loans Disbursed; (C4) Value of Loans Repaid	(P4) Value of Loans Outstanding; (P7) Value of Loans Written Off; (P2) Value of Loans Disbursed	$B4^1 = B4^0 + C9 - C4 - P7$

3 ANALYTICAL ADJUSTMENTS

Although most microfinance institution (MFI) managers are accustomed to hearing the term “adjustments” when referring to financial reporting, it means different things to different people. The *Microfinance Financial Definitions Guidelines, Definitions of Selected Financial Terms, Ratios and Adjustments for Microfinance*, known as the Financial Definitions Guidelines, provides definitions for some of the most common adjustments used in analyzing microfinance institutions. Those guidelines, however, do not address the details of how adjustments are calculated. The purpose of this chapter is to shed light on common adjustment methodologies used in microfinance by examining their differences, similarities, and effects on the bottom line and recommending some standard calculations for managers and others to use.

As noted in the Framework’s introduction, the reader does not need to be able to complete each (or any) of the adjustments to work through the ratios in chapter 4. Properly calculated adjustments, however, provide valuable information to managers.

Three major types of adjustments are traditionally applied to MFIs:

1. Subsidies,
2. Inflation, and
3. Portfolio at risk.

For each main category of adjustment, the chapter includes the following information:

- A description of the adjustments,
- Highlights of the differences in calculation methodologies,
- Recommendations for adjustments for true performance,
- Recommendations for a standard adjustment for benchmarking, and
- A description of the effects of the adjustments.

Table 3.1 summarizes the adjustments described in this chapter.

TABLE 3.1: SUMMARY OF ADJUSTMENTS

Ref.	Account Name	Explanation
Subsidies		
A1	Subsidized Cost of Funds Adjustment	Examines the difference between an MFI’s financial expense and the financial expense it would pay if all its funding liabilities were priced at market rates.
A2	In-Kind Subsidy Adjustment	The difference between what the MFI is actually paying for a donated or subsidized good or service and what it would have to pay for the same good or service on the open market. Donors often give MFIs funds and also goods and services at no cost or at below-market cost. Common examples of these in-kind subsidies are computers, consulting services, free office space, and free services of a manager.
Inflation		
A3	Inflation Adjustment	The rationale behind the inflation adjustment is that an MFI should, at a minimum, preserve the value of its equity (and shareholders or donors’ investments) against erosion due to inflation. In addition, this adjustment is important to consider when benchmarking institutions in different countries and economic environments. Unlike subsidy adjustments, recording an inflation adjustment is common in many parts of the world and is mandated by Section 29 of the International Accounting Standards

		(IAS) in high inflation economies.
Non-performing loans		
A4	Impairment Loss Allowance Adjustment	Intended to bring an MFI's Impairment Loss Allowance in line with the quality of its Gross Loan Portfolio.
A5	Write-off Adjustment	Intended to identify loans on an MFI's books that, by any reasonable standard, should be written off. This adjustment can significantly reduce the value of an MFI's assets if persistent delinquent loans are not counted as part of the gross loan portfolio.

The chapter concludes with samples of an adjusted income statement and an adjusted balance sheet based on the sample financial statements in chapter 2.

This chapter illustrates different adjustment techniques used by several organizations but does not present the full range of options now in use.⁶ Although the most common adjustments are listed in this chapter, some organizations make additional adjustments, such as reversal of accrued interest and adjustments for foreign exchange gains and losses, that are not considered in this Framework.

3.1 THE PURPOSE OF ADJUSTMENTS

Microfinance institutions, regardless of their social mission, are financial intermediaries. As such, it is important for managers and others to assess accurately the viability and soundness of MFIs as financial institutions.

Adjustments are usually made for two purposes:

- To reflect the *true performance* of MFIs (or their ability to maintain their level of operations over the long term) and
- To enable *benchmarking* across a wide range of institutions.

Although commercial banks usually do not concern themselves with adjustments, the need for adjustments in the field of microfinance is gaining acceptance. Adjustments make meaningful comparison of MFIs possible despite the diversity of the industry. Adjustments also enable MFI managers and outside analysts to measure the true performance of an MFI and analyze its long-term viability by studying its ability to cover all costs.

3.1.1 TRUE PERFORMANCE

True performance adjustments help reverse accounting policies that can present a distorted picture of the MFI's performance. Unadjusted data—even in the standardized format presented in chapter 2—may misrepresent an MFI's true performance when the underlying accounting practices and policies do not take into consideration certain risks. Some MFIs operate under rigid banking rules that require certain accounting principles and prudential norms, while others are free to adopt lenient accounting practices or flexible policies that may not ensure long-term sustainability. Some MFIs also operate with subsidies that may not be available in the long run. The common definitions, financial statements, and report formats proposed in chapter 2 may help overcome some of the issues linked to accounting differences, but they do not address the risk management or accounting decisions made by MFIs.

⁶ The organizations using these techniques include ACCIÓN International, CGAP, Développement International Desjardins, the MIX, United Kingdom Department for International Development, PlaNet Rating, and Women's World Banking.

In addition, true performance adjustments can help simulate an MFI's performance under conditions similar to those of a commercially funded operation. Adjusting financial statements enables managers to quantify the subsidized portion of the operations and the amount of additional revenue or increased efficiency needed to offset that subsidy.

Using adjustments to analyze true performance can be a very detailed exercise and involves myriad choices. Numerous variations exist on how these true performance adjustments can be calculated because the environments in which MFIs operate are quite diverse. In this chapter, a general formula is provided for calculating adjustments for true performance, and the variables are identified. Boxes 3.1 through 3.5 work through one example for a fictitious MFI on how to calculate true performance adjustments. Management should determine the variables that are most appropriate for its own environment.

3.1.2 BENCHMARKING

In addition to providing a better indication of the true performance of a single MFI, adjustments also enable managers and outside analysts to compare or benchmark an MFI's performance with other MFIs. Adjustments for benchmarking create common minimum standards for recognizing and managing credit, country, and operational risk in financial reporting. These standards eliminate many of the distortions among institutions caused by different legal forms, regulatory environments, and accounting, and other institutional policies.

Throughout the chapter, the standard for benchmarking presented follows the methodology used by the *MicroBanking Bulletin*.⁷ The reader can use the adjustments presented in this chapter to develop a set of adjusted financial statements and compare their performance to international benchmarks regularly published in the *MicroBanking Bulletin*.⁸

3.2 AVAILABILITY OF DATA

The availability of data is a key issue when deciding which adjustments to make and what method to follow. Adjustments often require information not found in the financial statements. Some adjustments also require estimations, such as the replacement cost of a particular donated good or service or the cost of funds at a market rate.

A trade-off often exists between the precision of data and the cost of gathering it; the more accurate the data the more costly it is to collect. Finding the most accurate data for true performance may require the MFI to spend more time and money in data collection. For benchmarking, this chapter incorporates data that is in the Framework or can be obtained fairly easily and at minimum cost to an MFI.

⁷ The *MicroBanking Bulletin* collects financial and portfolio data provided voluntarily by microfinance institutions (MFIs), organizes the data by peer groups, and disseminates the results. Its benchmarks are widely used by investors, donors, and other service providers to facilitate greater standardization and a better understanding of the development of the microfinance sector. For more information and recent editions of *MicroBanking Bulletin* benchmarks, visit www.mixmbb.org.

⁸ Common variables against which performance is benchmarked include age, target market, size, and region.

3.3 METHODOLOGIES FOR ADJUSTMENTS

Differences in adjustment methodologies arise from different criteria used for the following:

- The **accounts** that are used for the adjustment,
- The **period** for which the adjustment is made,
- The estimation of the **rate** used in calculating the adjustment, and
- The adjustment **formula**.

Despite the differences encountered, which depend on the purpose of the adjustment and availability of the data, all methodologies follow a similar approach, which is summarized in table 3.1. Several key points that are true for all the adjustments are also addressed in the chapter. They include the following:

- **If an adjustment calculation produces a negative number, the adjustment is not applied.** A negative number indicates that either the MFI's accounting practices already meet minimum standards, or the risk is not a significant risk to the institution.
- **Managers should explain the adjustment calculation and which variables they chose.** This explanation should be provided whenever adjusted data is presented.
- **Adjustments can be applied for any period of time.** Adjusted financial statements are typically calculated on an annual basis. Adjustments can be calculated, however, for a quarter or even a month.
- **The method used to calculate averages makes a difference.** Some adjustments are calculated using an average for a period. As discussed in chapter 1, managers should use monthly averages where possible and disclose the averaging method.

The remainder of this chapter is dedicated to presenting each adjustment, including a description of the key differences among adjustment methodologies used by MFI managers, analysts, rating agencies, donors, and investors.

3.4 ADJUSTMENTS FOR SUBSIDIES

Most MFIs benefit from some sort of subsidy. Although some MFIs can expect to benefit from subsidies over an extended period of time, subsidies are often neither permanent nor predictable. MFIs should recognize the value of these subsidies and understand how dependent they are on them. Planning for a future without subsidies requires examining what an MFI's performance would look like without them. In addition, subsidies enable a more meaningful comparison of performance indicators with other MFIs. Disclosing subsidies demonstrates that management is willing and able to be transparent. Such transparency is increasingly necessary to attract funding from commercial sources and donors.

Two adjustments are recommended to offset the effects of subsidies: Subsidized Cost of Funds Adjustment and In-Kind Subsidy Adjustment.

A1—SUBSIDIZED COST OF FUNDS ADJUSTMENT

Description

The subsidized cost of funds adjustment was developed to put a market value on any special borrowing arrangements that an MFI may have. Such arrangements, frequently referred to as concessional borrowings, are common through special government or donor programs or low-interest loans from the MFI’s network organization. The adjustment is made to determine the likely cost of these borrowings if an MFI had to pay a market rate for them.

Differences

Table 3.2 highlights some examples of differences in methodologies commonly used to adjust for subsidized cost of funds. All methodologies analyzed in this chapter use the same formula for adjusting for the cost of funds, which consists of calculating the extra expense that the MFI would incur if it were paying market rates for funds from commercial sources.

Adjustment Criteria	Examples
Accounts Used	\$ Total borrowings
	\$ Borrowings below market rate
	\$ Total funding liabilities (includes deposits)
	\$ Total funding liabilities less voluntary deposits
	\$ Interest and fee expense on funding liabilities
	\$ Interest and fee expense on borrowings
	\$ Interest expense on funding liabilities
	\$ Interest expense on borrowing
Market Rate	\$ Local certificate of deposit (CD) rate/savings rate
	\$ Three-month CD rate from the International Monetary Fund (IMF) Statistics (line 60I)
	\$ Discount rate from the IMF Statistics (line 60)
	\$ Weighted average of the MFI’s current commercial borrowings
	\$ Rates proposed by banks to MFIs that are approximately the same size

Formula

All adjustment methodologies analyzed in this chapter use a similar formula even if the accounts and rate used are different:

$$A1 = (\text{Period Average } \langle \text{Accounts} \rangle) \times [\text{Rate}] - \text{Interest (and Fee) Expense on } \langle \text{Accounts} \rangle^9$$

Any period of time can be used (month, quarter, year, and so on); however, all methodologies use the average outstanding accounts for the period. The adjustment is applied only to the MFI’s funding liabilities if the MFI is paying less than the market rate—that is, if A1 is positive. If the result of the formula is negative, the adjustment is not applied.

⁹ Some analysts prefer to use Interest Expense on [Accounts].

Analyzing True Performance

When analyzing its true performance, an MFI must determine which accounts and rate are most appropriate to use for this adjustment. The most accurate means to calculate the adjustment is to provide a breakdown of the average daily balance for each funding liability and compare the actual rate with a relevant market rate. For each funding liability that carries a below-market rate, the difference between the market rate for that type of deposit or borrowing and actual interest and fee expense is added to the Subsidized Cost of Funds Adjustment. An MFI that already has access to significant commercial funding may choose to use the weighted average rate of those funds as the market rate. MFIs that do not currently borrow in the market may look at the weighted average rate on competitors' commercial borrowings when estimating the market rate.

Such accuracy requires time and concise data. MFIs may choose to use a less detailed approach that is based on comparing the weighted average paid on funding liabilities with a published market rate. Box 3.1 provides an example of a subsidized cost of funds adjustment to measure true performance.

Box 3.1: Subsidized Cost of Funds Adjustment for True Performance

MICRO MFI is primarily funding its loan portfolio with its own equity and a \$100,000 six-year loan from an international development agency. The loan was received two years ago and carries an interest rate of 5 percent per annum in local currency. The management team has recently begun negotiations with a local bank to obtain additional funding and was quoted a rate of 13 percent per annum on those commercial funds. To analyze true performance of its MFI for the year, the manager opts to use the 13-percent rate as the alternate market rate of funds, as illustrated below:

Average Accounts:	\$100,000 (no movement occurred in the account during the year)
Period:	1 year
Rate:	13 %
Interest and Fee Expense:	\$5,000 for the 1-year period

$$A1 = (\$100,000 \times 13\%) - \$5,000 = \$13,000 - \$5,000 = \$8,000$$

Standard for Benchmarking

$$A1 = [(Average\ Short-term\ Borrowings + Average\ Long-term\ Borrowings) \times Market\ Rate\ for\ Borrowing] - Interest\ and\ Fee\ Expense\ on\ Borrowings$$

$$A1 = [(B15^{avg} + B19^{avg}) \times N10] - I10$$

For benchmarking across a wide range of MFIs that operate around the world, the *MicroBanking Bulletin* recommends the following criteria:

Accounts:

- (B15) Short-term Borrowings
- (B19) Long-term Borrowings
- (I10) Interest and Fee Expense on Borrowings

The benchmarking adjustment looks at the average of Short- and Long-term Borrowings for the period, which are the most common accounts used. It does not include deposits, which the MFI is less likely to raise at below-market rates.

Period: Average

Because the adjustment is based on the cost of funds during the period, the adjustment is applied to the average total borrowings using the Interest and Fee Expense recorded at the end of the period being analyzed.

Rate: Discount Rate

The Discount Rate published in the IMF Statistics, line 60, is used for benchmarking purposes because of its wide availability.¹⁰ This rate is included in the Non-Financial Data as (N10) Market Rate for Borrowings. Table 3.3 provides an example of how to calculate this adjustment.

TABLE 3.3: SAMPLE SUBSIDIZED COST OF FUNDS ADJUSTMENT FOR BENCHMARKING

Adjustment for Subsidized Cost of Fund	Formula	Adjustment
Average Short-term Borrowings plus Average Long-term Borrowings	$B15^{avg} + B19^{avg}$	18,716,138
Market Rate, End of Period	$N10^1$	9.5%
Market Cost of Funds	$(B15^{avg} + B19^{avg}) \times N10^1$	1,778,033
Interest and Fee Expense	I10	1,039,719
Adjustment for Subsidized Cost of Fund**	$[(B15^{avg} + B19^{avg}) \times N10^1] - I10$	738,314

** The adjustment is applied only if the result is > 0.

Effect on Financial Statements

The Subsidized Cost of Funds Adjustment is applied to the following account:

- Increase (I8) Financial Expense on Funding Liabilities.

These increases in expenses will reduce (B28) Retained Earnings, Current Year. To balance this decrease, the full value of the adjustment is added to (B31) Adjustments to Equity in the adjusted balance sheet.

A2—IN-KIND SUBSIDY ADJUSTMENT

Description

MFI's frequently receive in-kind subsidies, such as donated vehicles or computers, free rent, or the direct payment of staff members' salaries by a third party, such as a network organization. Although these items do not have any effect on an MFI's cash flow, the omission of their actual cost obscures the true cost of operations. Management needs to know how dependent they are on such in-kind subsidies to continue operations.

Differences

Table 3.4 highlights several examples of differences in methodologies that are commonly used to adjust for in-kind subsidies.

¹⁰ Regularly updated IMF statistics are available on a per country basis on the MIX Market at <http://www.mixmarket.org/en/environment/environment.search.asp>.

TABLE 3.4: DIFFERENCES IN THE IN-KIND SUBSIDY ADJUSTMENT METHODOLOGIES

Adjustment Criteria	Examples
Accounts	All adjustment methodologies analyzed in this chapter allow for adjustments on any or all of the following operating expenses: Personnel expense Administrative expense Some methods also adjust for donated fixed assets
Estimated Market Cost	The MFI estimates the replacement cost of the item subsidized (person with equivalent position hired locally, computer, and rent) or may defer to an outside analyst who knows comparable costs to other MFIs.

Formula

All adjustment methodologies analyzed in this chapter use the same formula even if the accounts and rate used are different:

$$A2 = \text{Period Estimated Market Cost of [Accounts]} - \text{Period Actual Cost of [Accounts]}$$

A challenge for managers is determining how to treat donations of fixed assets. This framework recommends that MFI managers account for Fixed Assets donations as part of their regular accounting rather than as an adjustment (see box 2).¹¹ If the MFI does not do so, managers may include the value of donated Fixed Assets as a true performance adjustment. However, they are not required to do so to adjust for benchmarking purposes.

Analyzing True Performance

The adjustment for in-kind subsidies is critical for MFIs that are interested in determining their financial self-sufficiency or their ability to cover all costs related to running the MFI with its own operating revenue. To be accurate, managers should consider every in-kind subsidy received, including personnel, fixed assets, and other operational support.¹² When considering which rates to use, managers should apply a fair local replacement value for the value of the subsidized staff member, service, or asset. For personnel and administrative subsidies, the difference between the estimated market cost and actual cost is added to the In-Kind Subsidy Adjustment. In the case of true performance analysis, donated Fixed Assets, such as donated computers or vehicles, that are not included in normal accounting for depreciation can be accounted for in In-kind Subsidy Adjustment. Managers should consider the asset's purchase cost and useful life and then apply the value of the fixed assets "consumed" during the period and add this amount to the adjustment.

Box 3.2 provides an example of how to calculate an in-kind subsidy adjustment for true performance, including a sample calculation of how to account for Fixed Asset donations that have not been booked by the MFI.

¹¹ MFIs should record fixed asset donations as deferred revenue in (B20) Other Long-term Liabilities. Each accounting period, usually monthly or quarterly, an amount equal to the period's depreciation for the donated asset is transferred to (128) Donations for Operating Expense, and the same amount is credited to (117) Depreciation and Amortization. If the MFI is not recognizing a fixed asset donation in this manner, it should include the value of the fixed asset as part of this adjustment.

¹² If a donor agreement requires an MFI to accept a good or service that it would not have purchased otherwise, the item is generally not treated as an in-kind subsidy when calculating this adjustment.

Box 3.2: In-Kind Subsidy Adjustment for True Performance

MICRO MFI was founded by a large international organization, RELIEF, which continues to provide it with support. In addition to supplying an international executive director, RELIEF provides in-country staff that supports MICRO MFI by providing accounting services, management information systems assistance, and a full-time business trainer for MICRO's clients. MICRO MFI's headquarters is in a building owned by RELIEF, and MICRO has a five-year agreement to rent the building at a below-market rate. RELIEF also granted two one-year-old vehicles and four computers to MICRO from its flood relief program in the south of the country. MICRO did not account for these donated Fixed Assets when it received them.

Working with RELIEF's accountant, MICRO calculated its In-Kind Subsidy Adjustment using the table below.

	Personnel	Estimated Monthly Market Cost (a)	Actual Monthly Cost (b)	No. of Months (c)	Subsidy (a – b) x c
i	Executive Director	2,000	0	12	24,000
ii	Accountant	800	0	12	9,600
iii	Part-time MIS Manager	400	100	12	3,600
iv	Trainer	400	200	6	1,200
	Adjustment for Personnel Expenses				38,400
Other Administrative Expenses					
i	Rent	1,500	400	12	13,200
ii	Software Support	50	0	12	600
	Adjustment for Other Administrative Expenses	—			13,800
Fixed Assets Depreciation Rate				Depreciation Rate	
i	Head Office Vehicle	12,000	0	20%	2,400
ii	Branch Office Vehicle	18,000	0	20%	3,600
iii	Four Computers, Branch Office	3,600	500	33.33%	1,033
	Adjustment to Depreciation Expense				7,033
Total In-Kind Subsidy Adjustment					59,400

Standard for Benchmarking

$$A2 = A2.1 + A2.2$$

where:

A2.1 = Estimated Market Cost of Personnel – Actual Cost of Personnel

A2.2 = Estimated Cost of Other Administrative Expenses – Actual Cost of Other Administrative Expenses

A2.1 = Estimated Market Cost of I17 – Actual I17

A2.2 = Estimate Market Cost of I20 – Actual I20

For benchmarking purposes, the following accounts are used in this adjustment.

Accounts:

- (I17) Personnel Expense
- (I20) Other Administrative Expense

For benchmarking purposes, a manager or analyst looks at any and all subsidies that have reduced Personnel or Administrative Expenses. As noted above, no calculation for donated fixed assets is included in the In-kind Subsidy Adjustment for benchmarking purposes.

Period: End of Period

Because the adjustment is based on the total subsidies received during the period, the adjustment is calculated on the total expenses during the period, represented on the end of period income statement.

Rate: Estimated Market Cost

No clear-cut way exists to instruct an MFI or analyst on how to determine the estimated market cost of a subsidy. For personnel who are paid by third parties, the generally accepted method for benchmarking is for managers to determine the replacement cost of that staff person. For example, some MFIs may receive the free services of a highly paid manager or advisor, perhaps a foreign national. The MFI should estimate the cost of replacing this person locally. The cost of other donated or subsidized office supplies or services should be based on the actual cost to obtain these from local vendors.

For the purpose of benchmarking, MFIs can use table 3.5 to determine their In-Kind Subsidy Adjustment.

TABLE 3.5: SAMPLE IN-KIND SUBSIDY ADJUSTMENT FOR BENCHMARKING

	Adjustment for In-Kind Subsidies	Estimated (x)	Actual Paid (y)	Adjustment (x - y)
Personnel Expenses				
<i>i</i>	<i>Executive Director</i>	1,200,000	1,130,000	30,000
<i>ii</i>	<i>On-site MIS Advisor (Part-Time)</i>	600,000	—	600,000
<i>iii</i>				
<i>iv</i>				
A2.1 Subtotal Personnel Adjustment				670,000
	Administrative Expenses			
<i>i</i>	<i>On- and Off-site Technical Support from Network</i>	840,000	210,000	630,000
<i>ii</i>	<i>Subsidized Rent from Municipal Government</i>	1,500,000	230,400	1,269,600
<i>iii</i>				
<i>iv</i>				
A2.2 Subtotal Administrative Adjustment				1,899,600
Adjustment for In-Kind Subsidies: A2.1 + A2.2				2,569,600

Effect on Financial Statements

- The In-Kind Subsidy Adjustment may be applied to the following accounts:
- Increase (I17) Personnel Expense;
- Increase (I20) Other Administrative Expense; and
- If Fixed Assets are also included and depreciated, it may increase (I19) Depreciation and Amortization Expense (for true performance adjustment only).

These increases in expenses will reduce (B28) Retained Earnings, Current Year. To balance this decrease, the full value of the adjustment is added to (B31) Adjustments to Equity in the adjusted balance sheet.

3.5 INFLATION ADJUSTMENT

All MFIs are affected by inflation. High inflation makes it difficult for MFIs to operate and has an erosive effect on an MFI's equity. Inflation became such a critical factor in some economies that IAS Section 29 mandates it for high inflation countries. Even in countries where inflation is not very high, performing this adjustment is important.

A3—INFLATION ADJUSTMENT

The Inflation Adjustment is not the same as inflation accounting. In some countries, local regulations require that MFIs record a non-cash expense to reflect the effects of inflation. As noted in chapter 2, MFIs should add a subaccount to (I11) Other Financial Expenses called (I11-1) Inflation Expense to disclose this amount. Because the methods used for inflation-based accounting may vary from country to country, and the application of those methods is inconsistent, the Inflation Adjustment for benchmarking ensures that a minimum standard is applied to all MFIs.

Description

The purpose behind the inflation adjustment is to calculate the decrease in the real value (or purchasing power) of equity due to inflation. MFIs have two kinds of assets, monetary assets and fixed assets, whereas liabilities are generally all monetary. Inflation affects the value of the net monetary assets (monetary assets less monetary liabilities) but not the value of fixed assets. Therefore, an inflation adjustment requires two steps. The easiest way to isolate the loss in purchasing power of net monetary assets due to inflation is to perform two calculations. First, the adjustment must quantify the erosion of the purchasing power of equity. Second, it must take into account that fixed assets have not lost value.¹³ The most common means to adjust for the “cost” of equity is to use the inflation rate as a surrogate, because MFIs should generate a return at least sufficient to cover the erosion of their equity due to the increase in price levels.

Differences

Table 3.6 highlights several examples of differences in the methodologies that are commonly used to adjust for inflation. All methodologies analyzed in this chapter use the same formula for adjusting for inflation, which consists of calculating the erosion of equity and revaluation of fixed assets due to the effect of inflation.

¹³ If the inflation rate is negative, no adjustment is made. An MFI that holds an equal amount of fixed assets and equity is not affected by the inflation adjustment because the income from revaluation of fixed assets would be offset by the expense from the devaluation of equity (net effect of 0).

TABLE 3.6: DIFFERENCES IN INFLATION ADJUSTMENT METHODOLOGIES

Adjustment Criteria	Examples
Accounts	\$ Net fixed assets and total equity
	\$ Net fixed assets, total equity, and net income
Period	\$ Period average
	\$ Beginning of period (end of previous period)
	\$ End of current period
Rate	\$ Calculated from the Consumer Price Index (CPI)
	\$ Obtained from the Central Bank (or another reliable source)
	\$ Self-reported
	\$ Inflation rate from the IMF Statistics (line 64X)

Formula

$$A3 = A3.1 - A3.2$$

where:

$$A3.1 = (\text{Equity Accounts} \times \text{Rate})$$

$$A3.2 = (\text{Net Fixed Assets} \times \text{Rate})$$

If an MFI already calculates an inflation expense as part of (I11) Other Financial Expenses, the Inflation Adjustment is applied only if the adjustment is greater than the recorded Inflation Expense. The entry in the adjusted financial statements is A.3 less (I11-1) Inflation Expense.

The formula for the Inflation Adjustment is as follows:

$$A3 = (A3.1 - A3.2) - (I11-1) \text{ Inflation Expense}$$

Analyzing True Performance

All MFIs should use Equity and Net Fixed Assets when calculating the Inflation Adjustment. MFIs can choose the beginning, end, or average of these accounts. An MFI should use the most recent, most reliable inflation rate available. Often, the Central Bank will publish the consumer price index (CPI) or the inflation rate on a regular basis on a Web site or in newspapers or other publications. Alternatively, the inflation rate is also published in the IMF statistics.¹⁴ The rate should cover the same period being analyzed. Box 3.3 provides an example of calculating an inflation adjustment to analyze true performance.

¹⁴ Regularly updated IMF statistics are available on a per country basis on the MIX Market at <http://www.mixmarket.org/en/environment/environment.search.asp>.

Box 3.3: Inflation Adjustment for True Performance

MICRO MFI operates in a country where inflation is fairly stable each year and is usually between 4 and 12 percent. According to the Central Bank, the average annualized inflation rate for the year was 6.5 percent. MICRO MFI has a grant agreement with a multilateral donor. The MFI draws down funds at the beginning of every month according to its grant agreement and liquidates the advances at the end of each quarter. At the end of the year, MICRO MFI used some of its cash from retained earnings to purchase two new vehicles. The purchase nearly doubled the value of the MFI's net fixed assets.

To calculate the true performance inflation adjustment, MICRO MFI determined that it was best to use the value of its Net Fixed Assets from the beginning of the year before the purchase of the two new vehicles shortly before the end of the year. At the same time, management believes that using average equity is the best approach because its Donated Equity and Retained Earnings were fairly steady throughout the year. Management uses a monthly average.

Net Fixed Assets, Beginning of Year =	150,000
Average Equity =	1,800,000
Inflation Rate =	6.5%

MICRO MFI calculates its Inflation Adjustment as follows:

A3.1 = Average Equity x Inflation Rate =	(1,800,000 x 6.5%) = 117,000
A3.2 = Net Fixed Assets x Inflation Rate =	(150,000 x 6.5%) = 9,750
A3 = A3.1 – A3.2 =	(117,000 – 9,750) = 107,250

The effect on MICRO MFI's income statement is to increase the Net Inflation Expense by 107,250, resulting in the same decrease in Net Income (After Taxes and Before Donations). On its balance sheet, management records an increase of 9,750 in Net Fixed Assets. Because Assets have increased by 9,750, and Equity has decreased by 107,250, MICRO MFI must add 117,000 to the Adjustments to Equity account to bring the balance sheet back in balance.

Standard for Benchmarking

$$A3 = A3.1 - A3.2$$

where:

$$A3.1 = (\text{Equity, Beginning of Period} \times \text{Inflation Rate})$$

$$A3.2 = (\text{Net Fixed Assets, Beginning of Period} \times \text{Inflation Rate})$$

$$A3.1 = (B32^0 \times N9)$$

$$A3.2 = (B9^0 \times N9)$$

For benchmarking purposes, the following criteria are used.

Accounts:

(B9) Net Fixed Assets

(B32) Total Equity

All methodologies use these two accounts, which are the most common ones used for benchmarking.

Period: Beginning of Period

Because the adjustment considers the effects of inflation during the period, the formula uses the value for Net Fixed Assets and Equity at the beginning of the period (or the end of the previous period). This shows the effects of inflation on the beginning value of fixed assets and equity during the period. This assumes that any effects of inflation on fixed assets sold or acquired during the period during the period are already incorporated in the sale or purchase price. Although this calculation is not a perfect measurement, using the beginning of the period provides a fair approximation of the effects of inflation.

Rate: Inflation rate

The inflation rate is usually available from the Central Bank. The inflation rate published in the IMF Statistics, line 64X, is used by the MicroBanking Bulletin because of its wide availability.

To calculate the Inflation Adjustment, MFIs may use table 3.7.

Adjustment for Inflation	Formula	Adjustment
Equity, Beginning of Period	B32 ⁰	42,168,713
Inflation Rate	N9	5.6%
Adjustment to Equity	A3.1 = B32 ⁰ x N9	2,361,448
Net Fixed Assets, Beginning of Period	B9 ⁰	4,272,836
Inflation Rate	N9	5.6%
Adjustment to Fixed Assets	A3.2 = B9 ⁰ x N9	239,279
Net Adjustment for Inflation	A3.1 – A3.2	2,122,169

Effect on Financial Statements

The Inflation Adjustment may affect the following accounts:

- Increase (I11) Other Financial Expense, and
- Increase in (B9) Net Fixed Assets

This increase in expenses will reduce (B28) Retained Earnings, Current Year; revaluation of Net Fixed Assets will increase (B12) Total Assets. To balance these changes, the sum of these two effects is added to (B31) Adjustments to Equity in the adjusted balance sheet.

3.6 PORTFOLIO AT RISK ADJUSTMENTS

An MFI's treatment of its portfolio at risk can have a major impact on its financial results. MFIs continue to differ widely in their accounting policies with respect to their nonperforming loans. No international standards for these practices exist, although local accounting standards, regulatory agencies, and historical loan loss rates may provide some insight into the point at which loans should be written off, or how to calculate its Impairment Loss Allowance. If this is the case, local standards must be followed when generating financial reports for regulators and auditors. The purpose of these adjustments is for performance monitoring; they ensure that some minimum standards for the portfolio at risk are applied. Regardless of regulatory requirements, MFIs must adjust for portfolio at risk. Ignoring nonperforming components of the portfolio will mislead, if not deceive, interested parties regarding the MFI's true financial condition.

Two adjustments are recommended for the portfolio at risk: the Impairment Loss Allowance Adjustment and the Write-off Adjustment. A third adjustment, reversal of interest accruals on portfolio at risk, is used by many analysts as well. Although the accrued interest adjustment is not one

of the standard adjustments included in this Framework, it is an MFIs should consider this important adjustment when analyzing true performance. Box 3.6 explains accrued interest adjustment.

A4—ADJUSTMENT FOR IMPAIRMENT LOSS ALLOWANCE

Description

The Impairment Loss Allowance, discussed in this chapter, is a type of adjustment for the value of the (B4) Gross Loan Portfolio to reflect the credit quality of the portfolio. MFIs should have an Impairment Loss Allowance policy that reflects their historical loss rates, perceived credit risk, and local standards. If managers have such a policy and implement it, the adjustment proposed in this section is not needed for true performance. If a loan loss policy is not in place, however, managers should apply this adjustment and also consider revising the MFI’s Impairment Loss Allowance policies to include it.

The adjustment for Impairment Loss Allowance has great benchmarking value because its primary purpose is to impose a minimum standard. It enables MFI managers and others to look at the performance of MFIs when they are held to a minimum level of loan loss provisioning.

Differences

Table 3.8 highlights several examples of differences in methodologies that are commonly used to adjust for Impairment Loss Allowance and provision expense.

TABLE 3.8: DIFFERENCES IN IMPAIRMENT LOSS ALLOWANCE ADJUSTMENT METHODOLOGIES

Adjustment Criteria	Examples
Accounts	<p>The adjustment always uses Portfolio at Risk (PAR) accounts. Although provisioning schedules vary, the most common portfolio aging schedule looks at loans that are past due by age:</p> <ul style="list-style-type: none"> ⌘ 0 days ⌘ 1–30 days ⌘ 31–60 days ⌘ 61–90 days ⌘ 91–180 days ⌘ 181–365 days ⌘ More than 365 days <p>Some variations include the following:</p> <ul style="list-style-type: none"> ⌘ Creating different aging schedules for different loan products ⌘ Separating all rescheduled loans ⌘ Breaking down the rescheduled portfolio by age
Allowance rates	<p>Variations across adjustment methodologies are greatest in the allowance rates. In the methodologies analyzed, the rate was one of the following:</p> <ul style="list-style-type: none"> ⌘ Based on MFI individual historical analysis of loan loss rate ⌘ Based on historical analysis of loan loss rate for a group of MFIs ⌘ Imposed by a regulatory agency ⌘ Based on a minimum percentage of the total portfolio <p>The rates used of those organizations surveyed are as follows:</p> <ul style="list-style-type: none"> ⌘ 0 days (current): 0% ⌘ 1–30 days: 0%, 10% ⌘ 31–60 days: 0%, 10%, 25%, 30% ⌘ 61–90 days: 0%, 25%, 30%, 50%

Adjustment Criteria	Examples
	<ul style="list-style-type: none"> \$ 91–180 days: 25%, 50%, 60%, 75% \$ 181–365 days: 75%, 100% \$ More than 365 days: 75%, 100% <p>For rescheduled portfolio, the rates are based on a combination of the allowance rates or a single rate for all.</p>

Formula

Although the accounts, period, and shadow rate used for the adjustment differed across methodologies, the formula used for the adjustment was consistent across methodologies.

$$A4 = \text{Gross Loan Portfolio} \times [\text{Allowance Rates}] - (\text{Impairment Loss Allowance})$$

In all methodologies, the end of the period is used. As with other adjustments, if the adjustment is negative, the adjustment is not applied.

Analyzing True Performance

As mentioned previously, an MFI that can determine the appropriate allowance rates for true performance should consider making those rates its official Impairment Loss Allowance policy. Several factors may limit management's ability to do so, however, including local regulations, outdated policies, or lack of available information for risk analysis. In such cases, it is recommended that the MFI perform this adjustment for analytical purposes only, determining for itself which provisioning levels may be the most appropriate.

Box 3.4 has an example of the true performance adjustment for the Impairment Loss Allowance.

Box 3.4: Impairment Loss Allowance Adjustment for True Performance

The international network to which MICRO belongs has established that the MFI must maintain an Impairment Loss Allowance equal to 4 percent of its outstanding loan portfolio. To analyze true performance, management has applied certain percentages of loan loss reserves on the portfolio based on the Portfolio Aging Schedule. The rate management applies is based on the historical loss rates from the past two years.

	Portfolio	Required Rate	Mandated Loan Loss Allowance	True Performance Rate (%)	Adjusted Loan Loss Allowance
Current Portfolio	2,000,000			1	20,000
Portfolio Past-Due 1–30 Days	420,000			5	21,000
Portfolio Past-Due 31–90 Days	340,000			15	51,000
Portfolio Past-Due 91–180 Days	210,000			85	178,500
Portfolio Past-Due > 180 Days	30,000			100	30,000
Total	3,000,000	4%	120,000		300,500

To increase the loan loss reserve to analyze true performance, management makes an adjustment to increase the provision expense on the income statement and the Impairment Loss Allowance on the balance sheet:

Impairment Loss Allowance: 120,000

Adjusted Impairment Loss Allowance: 300,500

A4 = Gross Loan Portfolio x <Allowance Rates> – Impairment Loss Allowance

$$A4 = 300,500 - 120,000 = 180,500$$

Standard for Benchmarking

[Current Portfolio, PAR 1–180 Days, Renegotiated Portfolio) x

Standard for Benchmarking Allowance Rates) – (Impairment Loss Allowance)

(P14 x Standard for Benchmarking Allowance Rates) + (P16 x Standard for Benchmarking Allowance Rates)] – B5

For benchmarking purposes, the following criteria are used.

Accounts:

- (P14) Portfolio at Risk (> 1 Day)
- (P16) Value of Renegotiated Loan Portfolio
- (B5) Impairment Loss Allowance

Most MFIs have the capability to create a Portfolio Aging Schedule, as described in chapter 2. For ease of comparison, all non-rescheduled loans, regardless of term or type, are subject to the same allowance rates when they are adjusting for benchmark purposes (regardless of product). All rescheduled loans are considered separately (with the same provisioning regardless of aging) when making the adjustment.

Period: End of Period

The end of period accounts are used throughout the formula.

Rate: Standard for Benchmarking Allowance Rates

The rate proposed corresponds to the minimum proposed provisioning and the rates used by the *MicroBanking Bulletin* to create international benchmarks.

- Current Portfolio → 0%
- PAR 1–30 days → 10%
- PAR 31–90 days → 30%
- PAR 91–180 days → 60%
- PAR > 180 days → 100%
- Renegotiated Portfolio → 100%

The rates above are for international benchmarking only and are not suggested allowance rates for an MFI’s internal use. Most MFIs should have more aggressive allowance rates. Table 3.9 includes an example of adjusting the Impairment Loss Allowance for benchmarking purposes.

TABLE 3.9: ADJUSTMENT FOR IMPAIRMENT LOSS ALLOWANCE

Formula	Adjustment for Provision Expense Loan Impairment	Number of Loans	Value of Portfolio	Loss Allowance Rate (%)	Impairment Loss Allowance
P11, P12	Current Portfolio	8,729	51,155,003	0%	—
P13, P14	PAR 1–30 days	2,110	2,224,372	10%	222,437
	PAR 31–90 days	2,949	1,668,279	30%	500,484

Formula	Adjustment for Provision Expense Loan Impairment	Number of Loans	Value of Portfolio	Loss Allowance Rate (%)	Impairment Loss Allowance
	PAR 91–180 days	556	166,828	60%	100,097
	PAR > – 180 days	204	244,681	100%	244,681
P15, P16	Renegotiated Portfolio	39	150,145	100%	150,145
B5^{adj}	Adjusted Impairment Loss Allowance				1,217,844
B5	Less Actual Impairment Loss Allowance				1,270,673
A4 = B5^{adj} – B5	Adjustment to Impairment Loss Allowance (if > 0)				—

Effect on Financial Statements

The Impairment Loss Allowance Adjustment may affect the following accounts:

- Increase (B5) Impairment Loss Allowance, and
- Increase (I14) Provision Expense for Impaired Loans.

Although the increase in (I14) Provision Expense for Impaired Loans will reduce (B28) Retained Earnings, Current Year, the increase in B5 will reduce the MFI's adjusted assets by the same amount. No additional balancing entry in Adjustments to Equity is required.

A5—WRITE-OFF ADJUSTMENT

Description

As discussed in chapter 2, writing off a loan is an accounting treatment to acknowledge that assuming a past due loan will be collected is no longer reasonable, even if collection efforts continue. If a write-off policy is not mandated by regulators, the board and management of the MFI should agree to a policy and procedures for write-offs. As with Impairment Loss Allowance, the decision to write off a loan is usually based on how long a loan has been past due. Just as the actual removal of uncollectible loans from the portfolio should have no effect on the MFI's attempt to collect past-due loans; neither should the write off adjustment. The write-off adjustment is an analytical exercise, not an operational decision.

Differences

The Write-off Adjustments used by MFIs, analysts, and others follow the same formula. The only difference relates to when the Write-off Adjustment is applied to a past due loan. The following accounts are most frequently used:

- Write-off PAR > 180 days
- Write-off PAR > 365 days

Formula

A5 requires two separate values:

$$\mathbf{A5.1 = Portfolio\ at\ Risk > XX\ Days}$$

$$\mathbf{A5.2 = Number\ of\ Loans > XX\ Days}$$

These values are then used in formulas, as box 3.5 describes.

Analyzing True Performance

Ideally, an MFI's write-off policy reflects the MFI's best information based on risk analysis and historical experience, and no adjustment is needed. In some instances, however, due to regulatory requirements or even standards imposed by the MFI's own board of directors, donors, or network organization, an MFI may adhere to a write-off policy that does not reflect the best information. True performance analysis is most accurate when the MFI can segregate its portfolio not only by age, but

Box 3.5: Write-off Adjustment for True Performance

MICRO MFI operates in a country where the Ministry of Finance does not permit MFIs to write off loans fewer than 360 days past due. Although MICRO follows this regulation, management recognizes that this period is inappropriate for its own microloan portfolio, which has an average term of six months. For analytical purposes, MICRO adjusts its loan portfolio to write off all microloans past due more than 180 days, as shown below. MICRO also has a few small business loans—representing approximately 5 percent of its total loan portfolio—that have an average loan term of 36 months. These loans are fully collateralized, and experience indicates that most are collected even after they are at risk for more than 180 days. Management opts not to adjust the loan portfolio to remove the small business loans; rather, it writes these loans off according to the banking authority requirement of 360 days.

Microloan Portfolio:	2,850,000
Small Business Portfolio:	<u>150,000</u>
Gross Loan Portfolio:	3,000,000
Impairment Loss Allowance:	120,000
PAR > 180 days on Microloans:	25,000
PAR > 180 days on Small Business Loans:	5,000
Number of Loans Outstanding:	50,000
Number of Microloans Past Due > 180 days:	200
Number of Small Business Loans Past Due > 180 days	4

$$\mathbf{A5.1 = 25,000}$$

$$\mathbf{A5.2 = 200}$$

MICRO MFI then calculates the following adjusted accounts:

$$\mathbf{Adjusted\ Gross\ Loan\ Portfolio = 3,000,000 - 25,000 = 2,975,000}$$

$$\mathbf{Adjusted\ Impairment\ Loss\ Allowance = 120,000 - 25,000 = 95,000}$$

$$\mathbf{Adjusted\ Number\ of\ Loans\ Outstanding = 50,000 - 200 = 49,800}$$

also by type or risk, and apply the most appropriate true performance allowance rate. For example, MFIs that have small- and medium-sized loans, which may have very different terms and conditions, can apply a different Portfolio Aging Schedule and different true performance allowance rates to these loans.

Standard for Benchmarking

A5.1 Portfolio at Risk > 180 days

A5.2 Number of Loans > 180 days

$$\text{A5.1} = \text{P14} > 180 \text{ days}$$

$$\text{A5.2} = \text{P13} > 180 \text{ days}$$

The purpose of the adjustment is to ensure that a minimum standard is met. For benchmarking purposes, the following criteria are used:

Accounts:

- (P14) Portfolio at Risk > 180 days
- (P13) Number of Loans Past Due > 180 days

This adjustment should be performed based on the portfolio aging at the end of the period analyzed, such as a quarter or a year. When writing off the loan amount, the number of corresponding loans and borrowers are also written off to prevent distorting productivity figures.

Table 3.10 provides an example of how an MFI manager can calculate the adjustment for write-offs for benchmarking.

Adjustment for Write-offs	Formula	Adjusted Value
PAR > 180 days Past Due	A5.1 = P14 > 180 days	244,681
Number of Loans > 180 Days Past Due	A5.2 = P13 > 180 days	204

Effect on Financial Statements

The Write-off Adjustment may affect the following accounts:

- Decrease (B4) Gross Loan Portfolio, and
- Decrease (B5) Impairment Loss Allowance.

This adjustment produces no net effect on the Net Loan Portfolio, and, therefore, no additional balancing entry in Adjustments to Equity is required. The additional effect of decreasing (N3) Number of Active Borrowers occurs.

MFIs may want to consider writing off interest receivable as well. The reversal of accrued interest is not included in the Framework; however, Box 3.6 explains accrued interest adjustment.

Box 3.6: Adjustment for Accrued Interest Receivable

Many MFIs around the world account for interest on a cash basis, including only the interest that has actually been received on its income statement. Other MFIs follow accrual-based accounting, and many different practices are in place regarding the accrual of interest on past due loans. Because traditional financial institutions often accrue interest on loans past due up to 90 days or more, some MFIs follow the same practice. Studies have shown, however, that although interest on traditional commercial loans past due up to 90 days is still likely to be received, MFIs are less likely to receive interest on loans past due more than 30 days. For this reason, some rating agencies and others adjust for those interest accruals.

Although not detailed in this Framework, more MFIs are able to estimate the amount of accrued interest related to the past due portfolio and may choose to make this adjustment. Many MFIs actually calculate interest accruals on a loan-by-loan basis and can easily identify the amount of interest accrued that corresponds to loans past due more than 30 days. Others may need to estimate the value, and various methodologies are used for estimating the accrued interest adjustment.¹⁵

3.7 CREATING ADJUSTED FINANCIAL STATEMENTS

When the MFI has calculated all its adjustments, it must create an adjusted income statement and balance sheet to analyze the full impact of the adjustments. As noted in table 3.11, which summarizes the effects of adjustments, the common adjustments presented in this chapter usually result in an increase in expense and/or a reduction of assets. To offset these adjustments, the adjusted balance sheet has one additional account called Adjustments to Equity. These adjustments appear in Table 3.12, Adjusted Income Statement, and Table 3.13, Adjusted Balance Sheet. When the adjustments have been calculated and adjusted financial statements created, the financial ratios presented in chapter 4 can be calculated based on adjusted results.

Table 3.14 provides an example of what information should be disclosed when presenting adjusted financial statements. This summary is important for an analyst to see which adjustments were made, which methodology was used, and what accounts were used to calculate them.

TABLE 3.11: SUMMARY OF THE EFFECTS OF ADJUSTMENTS

Adjustment	Key Accounts Affected	Effect of Adjustments on Financial Statements	Type of Institution Most Affected by Adjustment
A1 Adjustment for Subsidized Cost of Funds	I8 B28 B31	Increase Interest and Fee Expense on Funding Liabilities (I18 + A1) Decrease Retained Earnings, Current Year (B28 + A1) Increase Adjustments to Equity (B31 + A1)	MFIs with heavily subsidized borrowings
A2 Adjustment for In-Kind Subsidy	I17 I20 B28 B31	Personnel Expense: Increase Personnel Expense (I17 + A2.1) Increase Administrative Expense ^a (I20 + A2.2)	MFIs with expatriate staff financed by third-party supporters; MFIs using goods or services for which they are not paying market

¹⁵ See Darcy Salinger and Sonia Salzman, 1998, "The ACCIÓN CAMEL" (Boston, MA: ACCIÓN International). http://www.microlinks.org/ev_en.php?ID=3104_201&ID2=DO_TOPIC.

Adjustment	Key Accounts Affected	Effect of Adjustments on Financial Statements	Type of Institution Most Affected by Adjustment
		Decrease Retained Earnings, Current Year (B28 + A2) Increase Adjustments to Equity (B31 + A2)	rates.
A3 Adjustment for Inflation	B9 I11 B31	Increase Net Fixed Assets (B9 + A3.2) Increase Net Inflation Expense (I11 + A3) Increase Adjustments to Equity (B31 + A3.1)	MFIs funded more by equity than by liabilities; MFIs in high-inflation countries
A4 Adjustment for Impairment Loss Allowance	B5 I13 B28	Increase Impairment Loss Allowance (B5 + A4) Increase Impairment Losses on Loans (I13 + A4) Decrease Retained Earnings (B28 – A4)	MFIs that have lenient loan loss provisioning policies and a high portfolio at risk
A5 Write-off Adjustment	B4 B5 P3 P6	Decrease Gross Loan Portfolio (B4 – A5.1) Decrease Impairment Loss Allowance (B5 – A5.1) Decrease Number of Loans Outstanding (P3 – A5.2) Increase Number of Loans Written Off during the Period (P6 + A5.2)	MFIs that do not write off nonperforming loans aggressively

^a If the MFI is adjusting for donated fixed asset, this item may also include (I17) Depreciation and Amortization Expense.

TABLE 3.12: ADJUSTED INCOME STATEMENT

Ref.	X-Ref.	Term	From 1/1/2004 to 31/12/2004	Adjustments	From 1/1/2004 to 31/12/2004 Adjusted
I1		Financial Revenue	18,976,898		18,976,898
I2		Financial Revenue from Loan Portfolio	17,053,668		17,053,668
I3		Interest on Loan Portfolio	13,867,568		13,867,568
I4		Fees and Commissions on Loan Portfolio	3,186,100		3,186,100
I5		Financial Revenue from Investments	1,597,830		1,597,830
I6		Other Operating Revenue	325,400		325,400
I7		Financial Expense	1,287,719		4,148,202
I8	A1	Financial Expense on Funding Liabilities	1,039,719	738,314	1,778,033
I9		Interest and Fee Expense on Deposits	256,343		256,343
I10		Interest and Fee Expense on Borrowings	783,376		783,376
I11	A3	Other Financial Expense	248,000	2,122,169	2,370,169
I12		Net Financial Income	17,689,179		14,828,696
I13	A4	Impairment Losses on Loans	439,972	—	439,972
I14		Provision Expense for Impaired Loans	489,154		134,506
I15		Value of Loans Recovered	(49,182)	—	
I16		Operating Expense	15,072,242		17,641,842
I17	A2.1	Personnel Expense	8,700,000	670,000	9,370,000
I18		Administrative Expense	6,372,242		8,271,842
I19		Depreciation and Amortization Expense	1,597,669		1,597,669
I20	A2.2	Other Administrative Expense	4,774,573	1,899,600	6,674,173
I21		Net Operating Income	2,176,965		(3,253,119)
I22		Net Non-Operating Income	(1,403,143)		(1,403,143)
I23		Non-Operating Revenue	586,471		586,471
I24		Non-Operating Expense	(1,989,614)		(1,989,614)
I25		Net Income (Before Taxes and Donations)	773,822		(4,656,262)
I26		Taxes	760,816		760,816
I27		Net Income (After Taxes and Before Donations)	13,006		(5,417,078)
I28		Donations	4,582,000		4,582,000
I29		Donations for Loan Capital	—		—
I30		Donations for Operating Expense	4,582,000		4,582,000
I31		Net Income (After Taxes and Donations)	4,595,006		(835,078)

TABLE 3.13: ADJUSTED BALANCE SHEET

Ref.	Adj.	Account Name	Current Year	Adjustment	Adjusted Current Year
Assets					
B1		Cash and Due from Banks	3,261,195		3,261,195
B2		Trade Investments	10,611,928		10,611,928
B3		Net Loan Portfolio	54,338,636		54,338,638
B4	A5	Gross Loan Portfolio	55,609,309	(244,681)	55,364,628
B5	A4 A5	Impairment Loss Allowance	(1,270,673)	244,681	(1,025,992)
B6		Interest Receivable on Loan Portfolio	1,604,993		1,604,993
B7		Accounts Receivable and Other Assets	1,610,308		1,610,308
B8		Other Investments	1,165,420		1,165,420
B9	A3.2	Net Fixed Assets	5,567,936	239,279	5,807,215
B10		Fixed Assets	10,640,051		10,640,051
B11		Accumulated Depreciation and Amortization	(5,072,115)		(5,072,115)
B12		Total Assets	78,160,416	239,279	78,399,695
Liabilities					
B13		Demand Deposits	—		—
B14		Short-term Time Deposits	3,423,878		3,423,878
B15		Short-term Borrowings	2,737,009		2,737,009
B16		Interest Payable on Funding Liabilities	237,177		237,177
B17		Accounts Payable and Other Short-term Liabilities	500,100		500,100
B18		Long-term Time Deposits	3,000,000		3,000,000
B19		Long-term Borrowings	16,661,750		16,661,750
B20		Other Long-term Liabilities	3,699,498		3,699,498
B21		Total Liabilities	30,259,412		30,259,412
Equity					
B22		Paid-In Capital	12,000,000		12,000,000
B23		Donated Equity	37,175,822		37,175,822
B24		Prior Years	32,593,822		32,593,822
B25		Current Year	4,582,000		4,582,000
B26		Retained Earnings	(1,401,678)		(6,831,761)
B27		Prior Years	(1,414,683)		(1,414,683)
B28	A1, A2, A3, A4	Current Year	13,006	(5,430,083)	(5,417,078)
B29		Reserves	126,860		126,860
B30		Other Equity Accounts			—
B31		Adjustments to Equity		5,669,362	5,669,362
B31-1	A1	Subsidized Cost of Funds Adjustment		738,314	
B31-2	A2	In-Kind Subsidy Adjustment		2,569,600	
B31-3	A3	Inflation Adjustment		2,361,448	
B32		Total Equity	47,901,004		48,140,283

TABLE 3.14: SAMPLE DISCLOSURE FOR ADJUSTMENTS

Purpose of Adjustment	Benchmarking	Benchmarking	Benchmarking	Benchmarking
Type of Adjustment	(A1) Subsidized Cost of Funds	(A2) In-Kind Subsidy	(A3) Inflation	(A4) Impairment Loss Allowance (A5) Write-off
Potential Accounts Affected	(I7) Financial Expense	(I17) Personnel Expense (I20) Other Administrative Expense	(I11) Other Financial Expense (B9) Net Fixed Assets	(B4) Gross Loan Portfolio (B5) Impairment Loss Allowance
Rate, Schedule, or Amount	IMF Statistics, line 60	Replacement cost for local personnel and subsidies; actual cost for international network support	IMF Statistics, line 64x	See Minimum Standard Provisioning below
Calculation	Total Funding Liabilities x Market Rate – Financial Expense on Funding Liabilities	Replacement Cost – Actual Cost	(Equity, Beginning of Period x Inflation) – Net Fixed Assets, Beginning of Period x Inflation)	(PAR x Benchmarking Rate) – Actual Impairment Loss Allowance
Effect on Financial Sustainability	Decrease Net Operating Income	Decrease Net Operating Income	Decrease Net Operating Income; Increase Fixed Assets	No effect on Impairment Losses on Loans; Decrease Gross Loan Portfolio
Aging Schedule	Regular Portfolio (not renegotiated)		Renegotiated Portfolio	
	Minimum Standard Provisioning (%)		Minimum Standard Provisioning (%)	
Current Portfolio	0		100	
PAR 1–30 Days	10		100	
PAR 31–60 Days	30		100	
PAR 61–90 Days	60		100	
PAR 91–180 Days	100		100	
PAR 181–365 Days	Write-off		100	
PAR > 365 Days	Write-off		100	

4 FINANCIAL RATIOS AND INDICATORS

There are a multitude of financial ratios and indicators, each of which may provide useful information to a microfinance institution (MFI) manager. Ratios and indicators help managers evaluate the performance of their organization in several different aspects of its activity. The 18 indicators selected in this Framework reflect the areas of measurement that are priorities for most MFIs. The “SEEP 18” are divided into the following four groups:

- Profitability and sustainability,
- Asset/liability management,
- Portfolio quality, and
- Efficiency and productivity.

This chapter begins by listing the term for each ratio, its formula, and an explanation of its purpose. Each ratio is then discussed in the context of its group, including a brief introduction to each group and a definition of each ratio. For each ratio, the Framework includes a description of the following:

- The formula,
- Why the ratio is important, and
- How to use adjusted data in the calculations and the effects of using adjustments.¹⁶

Each ratio can be derived directly from the financial statements and reports presented in chapter 2. Most ratios can be calculated using the adjusted financial statements presented in chapter 3. If the MFI can't complete the adjustments, it should calculate these ratios on both an adjusted and an unadjusted basis. Taken as a whole, the ratios in this Framework provide a multidimensional perspective on the financial health of the lending and savings operations of the institution. The ratios must be analyzed together; selective ratio use can create an incomplete picture.

Table 4.1 summarizes the SEEP 18 and includes their calculations, which use the financial statements in Chapters 2 and 3.

Ratios are customarily expressed as an annualized number or percentage. They can be calculated for any period, however, from monthly to annually, and managers are encouraged to calculate ratios monthly or quarterly. Before calculating ratios, consider calculation issues related to *averaging* and *annualizing*, discussed in chapter 1.

¹⁶ In some cases, ratios cannot be calculated on an adjusted basis or the value of doing so is minimal. No effects of adjustments are listed for these ratios.

TABLE 4.1: SUMMARY OF THE SEEP 18

Ref.	Term	Formula	Explanation
Sustainability and Profitability			
R1	Operational Self-Sufficiency	$\frac{\text{Financial Revenue}}{\text{(Financial Expense + Impairment Losses on Loans + Operating Expense)}}$	Measures how well an MFI can cover its costs through operating revenues.
	Financial Self-Sufficiency	$\frac{\text{Adjusted Financial Revenue}}{\text{(Adjusted Financial Expense + Adjusted Impairment Losses on Loans + Adjusted Operating Expense)}}$	Measures how well an MFI can cover its costs taking into account adjustments to operating revenues and expenses.
R2	Return on Assets (ROA)	$\frac{\text{Net Operating Income} - \text{Taxes}}{\text{Average Assets}}$	Measures how well the MFI uses its assets to generate returns. This ratio is net of taxes and excludes non-operating items and donations.
	Adjusted Return on Assets (AROA)	$\frac{\text{Adjusted Net Operating Income} - \text{Taxes}}{\text{Average Adjusted Assets}}$	
R3	Return on Equity (ROE)	$\frac{\text{Net Operating Income} - \text{Taxes}}{\text{Average Equity}}$	Calculates the rate of return on the Average Equity for the period. Because the numerator does not include non-operating items or donations and is net of taxes, the ratio is frequently used as a proxy for commercial viability.
	Adjusted Return on Equity (AROE)	$\frac{\text{Adjusted Net Operating Income} - \text{Taxes}}{\text{Average Adjusted Equity}}$	
Asset/Liability Management			
R4	Yield on Gross Portfolio	$\frac{\text{Cash Received from Interest, Fees, and Commissions on Loan Portfolio}}{\text{Average Gross Loan Portfolio}}$	Indicates the MFI's ability to generate cash from interest, fees, and commissions on the Gross Loan Portfolio. No revenues that have been accrued but not paid in cash are included.
R5	Portfolio to Assets	$\frac{\text{Gross Loan Portfolio}}{\text{Assets}}$	Measures the MFI's allocation of assets to its lending activity. Indicates management's ability to allocate resources to the MFI's primary and most profitable activity—making microloans.
R6	Cost of Funds Ratio	$\frac{\text{Financial Expenses on Funding Liabilities}}{\text{(Average Deposits + Average Borrowings)}}$	Calculates a blended interest rate for all the MFI's funding liabilities.
	Adjusted Cost of Funds Ratio	$\frac{\text{Adjusted Financial Expenses on Funding Liabilities}}{\text{(Average Deposits + Average Borrowings)}}$	The adjusted ratio will usually be higher due to affect of the Subsidized Cost of Funds adjustment.
R7	Debt to Equity	$\frac{\text{Liabilities}}{\text{Equity}}$	Measures the overall leverage of an institution and how much cushion it has to absorb losses after all liabilities are paid.
	Adjusted Debt to Equity	$\frac{\text{Liabilities}}{\text{Adjusted Equity}}$	The adjusted ratio considers reductions to equity due to adjustments.

Ref.	Term	Formula	Explanation
R8	Liquid Ratio	$\frac{\text{Cash} + \text{Trade Investments}}{\text{Demand Deposits} + \text{Short-term Time Deposits} + \text{Short-term Borrowings} + \text{Interest Payable on Funding Liabilities} + \text{Accounts Payable and Other Short-term Liabilities}}$	Indicates level of cash and cash equivalents the MFI maintains to cover short-term liabilities. Short-term means assets or liabilities or any portion thereof that have a due date, maturity date, or may be readily converted to cash within 12 months.
Portfolio Quality			
R9	Portfolio at Risk (PAR) Ratio	$\frac{\text{PAR} > 30 \text{ Days} + \text{Value of Renegotiated Loans}}{\text{Gross Loan Portfolio}}$	The most accepted measure of portfolio quality. The most common international measurements of PAR are > 30 days and > 90 days.
	Adjusted PAR Ratio	$\frac{\text{Adjusted PAR} > 30 \text{ Days} + \text{Value of Renegotiated Loans}}{\text{Adjusted Gross Loan Portfolio}}$	The adjusted PAR reduces the Gross Loan Portfolio by the Write-off Adjustment.
R10	Write-off Ratio	$\frac{\text{Value of Loans Written Off}}{\text{Average Gross Loan Portfolio}}$	Represents the percentage of the MFI's loans that has been removed from the balance of the gross loan portfolio because they are unlikely to be repaid. MFIs' write-off policies vary; managers are recommended to calculate this ratio on an adjusted basis.
	Adjusted Write-off Ratio	$\frac{\text{Value of Loans Written Off} + \text{Write-off Adjustment}}{\text{Average Adjusted Gross Loan Portfolio}}$	
R11	Risk Coverage Ratio	$\frac{\text{Impairment Loss Allowance}}{\text{Portfolio at Risk} > 30 \text{ Days}}$	Shows how much of the portfolio at risk is covered by the MFI's Impairment Loss Allowance.
	Adjusted Risk Coverage Ratio	$\frac{\text{Adjusted Impairment Loss Allowance}}{\text{Adjusted Portfolio at Risk} > 30 \text{ Days} - \text{Write-off Adjustment}}$	The adjusted ratio incorporates the Impairment Loss Allowance Adjustment and the Write-off Adjustment.
Efficiency and Productivity			
R12	Operating Expense Ratio	$\frac{\text{Operating Expense}}{\text{Average Gross Loan Portfolio}}$	Highlights personnel and administrative expenses relative to the loan portfolio the most commonly used efficiency indicator.
	Adjusted Operating Expense Ratio	$\frac{\text{Adjusted Operating Expense}}{\text{Average Adjusted Gross Loan Portfolio}}$	The adjusted ratio usually increases this ratio when the affect of subsidies are included.
R13	Cost per Active Client	$\frac{\text{Operating Expense}}{\text{Average Number of Active Clients}}$	Provides a meaningful measure of efficiency for an MFI, allowing it to determine the average cost of maintaining an active client.
	Adjusted Cost per Client	$\frac{\text{Adjusted Operating Expense}}{\text{Average Number of Active Clients}}$	The adjusted ratio usually increase this ratio when the affect of subsidies are included.
R14	Borrowers per Loan Officer	$\frac{\text{Number of Active Borrowers}}{\text{Number of Loan Officers}}$	Measures the average caseload of (average number of borrowers managed by) each loan officer.

Ref.	Term	Formula	Explanation
R15	Active Clients per Staff Member	$\frac{\text{Number of Active Clients}}{\text{Total Number of Personnel}}$	The overall productivity of the MFI's personnel in terms of managing clients, including borrowers, voluntary savers, and other clients.
R16	Client Turnover	$\frac{\text{Number of Active Clients, End of Period} + \text{Number of New Clients During Period} - \text{Number of Active Clients, Beginning of Period}}{\text{Average Number of Active Clients}}$	Measures the net number of clients continuing to access services during the period; used as one measurement of client satisfaction.
R17	Average Outstanding Loan Size	$\frac{\text{Gross Loan Portfolio}}{\text{Number of Loans Outstanding}}$	Measures the average outstanding loan balance per borrower. This ratio is a profitability driver and a measure of how much of each loan is available to clients.
	Adjusted Average Outstanding Loan Size	$\frac{\text{Adjusted Gross Loan Portfolio}}{\text{Adjusted Number of Loans Outstanding}}$	The adjusted ratio incorporates the Write-off Adjustment.
R18	Average Loan Disbursed	$\frac{\text{Value of Loans Disbursed}}{\text{Number of Loans Disbursed}}$	Measures the average value of each loan disbursed. This ratio is frequently used to project disbursements. This ratio or R17 can be compared to (N12) GNI per capita. ^a

^a Although loan size has historically been used as an approximate proxy for the poverty level of clients, this controversial proxy has been disputed. More accurate poverty indicators are being developed by The SEEP Network's Poverty Outreach Working Group. For information, visit www.seepnetwork.org.

4.1 PROFITABILITY AND SUSTAINABILITY RATIOS

Profitability and sustainability ratios reflect the MFI's ability to continue operating and grow in the future. Most reputable MFIs are striving for sustainability, regardless of their nonprofit or for-profit status; donors and investors alike look to fund sustainable institutions. Several factors can affect profitability and sustainability. Although startup or rapidly growing institutions may have low profitability, they are building the basis for a sustainable future. The ratios recommended in this section are the most widely accepted in the industry.

R1—OPERATIONAL SELF-SUFFICIENCY/FINANCIAL SELF-SUFFICIENCY

Formula

$\text{OSS} = \frac{\text{Financial Revenue}}{(\text{Financial Expense} + \text{Impairment Losses on Loans} + \text{Operating Expense})}$	$\text{R1} = \frac{\text{I1}}{(\text{I7} + \text{I13} + \text{I16})}$
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Why This Ratio Is Important

Operational Self-Sufficiency (OSS) is the most basic measurement of sustainability, indicating whether revenues from operations are sufficient to cover all operating expenses. As with the preceding measures of returns, OSS focuses on revenues and expenses from the MFI's core business, excluding non-operating revenues and donations. Financial Expense and Impairment Losses on Loans are included in

this calculation because they are normal (and significant) costs of operating. By focusing on cost coverage, OSS reflects the MFI's ability to continue its operations if it receives no further subsidies.

The breakeven point of an MFI's operations is 100 percent. Young MFIs may take several years to break even, and when they do, they should never return to an OSS of less than 100 percent. OSS does not tend to fluctuate as much as other ratios and the positive trend can be achieved through growth and increased efficiency. As a result, OSS is the one profitability measurement that is worth monitoring on a monthly basis. Managers should consider the drivers behind OSS—is it due to larger loan sizes, high yields, low financial expenses, or efficient operations? Although not considered as rigorous an indicator as AROE, OSS is a simple and useful measurement for MFI managers, particularly for young MFIs that want to monitor their path to sustainability.

Effects of Adjustments

$\text{FSS} = \frac{\text{Financial Revenue}}{(\text{Adjusted Financial Expense} + \text{Adjusted Net Impairment Losses on Loans} + \text{Adjusted Operating Expense})}$	$\text{R1}^{\text{ADJ}} = \frac{\text{I1}}{(\text{Adjusted I7} + \text{Adjusted I13} + \text{Adjusted I16})}$
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Adjusted OSS is called Financial Self-Sufficiency (FSS). Four of the adjustments affect FSS through increasing Financial Expense, Impairment Losses on Loans, and Operating Expense. The exception is the Write-off Adjustment, which has no effect on income or expenses. The difference between this ratio and OSS is that FSS measures not only an MFI's ability to cover its operating costs but also its ability to maintain the value of its equity relative to inflation and to operate and expand without subsidies. Broadly speaking, OSS measures ability to survive, while FSS is a better indicator of ability to grow.

MFI managers should seek to achieve an FSS ratio greater than 100 percent. FSS can be affected by external factors, such as inflation and the local market rate for borrowings, which can lead to annual fluctuations. FSS is less likely to fluctuate for MFIs that have fewer subsidies and higher leverage (and smaller adjustments), such as commercial institutions and credit unions. If an MFI can calculate FSS, it can also calculate AROE and AROA. When an MFI is consistently reaching FSS greater than 100 percent, managers should pay closer attention to AROE and AROA, which are more commercial measurements of performance.

R2—RETURN ON ASSETS/ADJUSTED RETURN ON ASSETS

$\text{ROA} = \frac{\text{Net Operating Income} - \text{Taxes}}{\text{Average Assets}}$	$\text{R2} = \frac{(\text{I21} - \text{I26})}{\text{B12}^{\text{avg}}}$
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Why This Ratio Is Important

Return on Assets (ROA) indicates how well an MFI is managing its assets to optimize its profitability. The ratio includes not only the return on the portfolio, but also all other revenue generated from investments and other operating activities. If an institution's ROA is fairly constant, this ratio can be used to forecast earnings in future periods. Unlike ROE, this ratio measures profitability regardless of the institution's underlying funding structure; it does not discriminate against MFIs that are funded primarily through equity. Therefore, ROA is a good measurement to compare commercial and non-commercial MFIs. In fact, non-commercial MFIs with low debt/equity ratios can often achieve higher ROA than their commercial counterparts because they have low financial expenses and pay fewer taxes.

ROA should be positive. MFIs have achieved unusually high ROA in recent years. A positive correlation exists between this ratio and Portfolio to Assets; the ratio is higher for institutions that maintain a large percentage of the assets in the Gross Loan Portfolio.

Effects of Adjustments

$\text{AROA} = \frac{\text{Adjusted Net Operating Income} - \text{Taxes}}{\text{Adjusted Average Assets}}$	$\text{R2}^{\text{ADJ}} = \frac{\text{Adjusted I21} - \text{I26}}{\text{Adjusted B12}^{\text{avg}}}$
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All five adjustments affect this ratio and, as with AROE, the primary effect is to reduce Net Operating Income. Most MFIs cannot expect to fund their future growth with continuing infusions of new subsidies. Adjusted Return on Assets (AROA) provides an indication of their ability to expand profitably with unsubsidized funding. AROA provides an interesting profitability comparison with other MFIs because it fully weights the costs of being a commercial MFI without penalizing non-commercial MFIs for a lack of leverage. It reveals that non-commercial MFIs can be highly profitable.

R3—RETURN ON EQUITY/ADJUSTED RETURN ON EQUITY

$\text{ROE} = \frac{\text{Net Operating Income} - \text{Taxes}}{\text{Average Equity}}$	$\text{R3} = \frac{(\text{I21} - \text{I26})}{\text{B32}^{\text{avg}}}$
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Why This Ratio Is Important

In a for-profit MFI, Return on Equity (ROE) is the most important profitability indicator; it measures an MFI's ability to reward its shareholders' investment, build its equity base through retained earnings, and raise additional equity investment. For a non-profit MFI, ROE indicates its ability to build equity through retained earnings, and increased equity enables the MFI to leverage more financing to grow its portfolio. By excluding donations and non-operating revenues, this ratio demonstrates an institution's ability to generate income from its core financial service activity.

Some mature MFIs have achieved remarkably high ROE exceeding those of banks. Young organizations may take several years to achieve this, and even a mature MFI's ROE can be temporarily depressed due to unplanned events (such as natural disasters) or planned undertakings (such as expansion). ROE tends to fluctuate more than ROA. Monthly measurements of ROE can be misleading because many MFI costs may not be recorded until the end of the fiscal year. Managers should look for a positive trend over several years and a ratio similar or better than competitors. As the market becomes saturated and competition increases, ROE may plateau.

MFIs that are financed solely through equity donations will find this ratio less meaningful because donors rarely base their future investment decisions on ROE. ROE is, however, a good indicator of how well the MFI has used retained earnings and donor money to become sustainable.

Effects of Adjustments

$\text{AROE} = \frac{\text{Adjusted Net Operating Income} - \text{Taxes}}{\text{Adjusted Average Equity}}$	$\text{R3}^{\text{ADJ}} = \frac{\text{Adjusted I21} - \text{I26}}{\text{Adjusted B32}^{\text{avg}}}$
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The Cost of Funds, Inflation, and In-Kind subsidy adjustments affect Adjusted Return on Equity (AROE) by decreasing Net Operating Income, while the Adjustment for Impairment Loan Allowance can reduce Net Operating Income and Average Equity. In this ratio, managers and others can see how an MFI might perform in the future if it operated in a subsidy-free commercial environment. AROE is a good proxy for commercial viability, and most investors prefer it. Because it eliminates the positive effects of subsidies and preferential borrowing arrangements and applies a minimum standard for treating a portfolio at risk, AROE is useful for comparing one MFI to another.

4.2 ASSET/LIABILITY MANAGEMENT RATIOS

The basis of financial intermediation is the ability to manage assets (the use of funds) and liabilities (the source of funds). Asset/liability management is required on the following several levels:

- **Interest Rate Management.** The MFI must make sure that the use of funds generates more revenue than the cost of funds.
- **Asset Management.** Funds should be used to create assets that produce the most revenue (are most “productive”).
- **Leverage.** The MFI seeks to borrow funds to increase assets and thereby increase revenue and net profit. At the same time, the MFI must manage the cost and use of its borrowings so that it generates more revenue than it pays in Interest and Fee Expense on those borrowings. It must also be wary of borrowing more than it can repay in times of trouble.
- **Liquidity Management.** The MFI must also make sure that it has sufficient funds available (“liquid”) to meet any short-term obligations.
- **Foreign Currency Management.** This occurs when an MFI lends, invests, or borrows in a foreign currency. The risk is greatest when a mismatch exists between the value of foreign currency assets and liabilities, leaving the MFI exposed to either a decline in the value of its assets or an increase in balance of its funding liabilities when a significant movement in exchange rates occurs.

Although the next five indicators are important for any MFI, they are particularly important to MFIs that take deposits and borrow funds.

R4—YIELD ON GROSS PORTFOLIO

$\text{Yield} = \frac{\text{Cash Received from Interest, Fees, and Commissions on Loan Portfolio}}{\text{Average Gross Loan Portfolio}}$	$R4 = \frac{C1}{B4^{\text{avg}}}$
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Why This Ratio Is Important

Yield on Gross Portfolio, also called portfolio yield, measures how much the MFI actually received in cash interest payments and Fees and Commissions from its clients during the period; this ratio is the initial indicator of an MFI’s ability to generate cash for operations from the Gross Loan Portfolio. Cash receipts from the Gross Loan Portfolio are vital for an MFI’s survival. As a cash measure, this indicator is distorted by neither unrealistic accrual or deferral policies nor by loan refinancing nor other means of non-cash payment that can hide loan delinquency problems.¹⁷

Portfolio yield must be analyzed in the context of the local market and prevailing interest rates. Yields should not fluctuate significantly unless the MFI frequently changes its loan terms and conditions. MFI managers should compare frequently the portfolio yield with the effective interest rate of their loans or the contractual yield of the portfolio to determine whether a “yield gap” exists. If the Yield is

¹⁷ MFIs that use accrual accounting and have difficulty in determining Cash Received from Interest, Fees, and Commissions on Loan Portfolio may opt to use (I1) Financial Revenue as the numerator. MFIs may also choose to use (I1) Financial Revenue less (B6) Interest Receivable as a proxy for cash received from interest and fees. Using (I1) Financial Revenue less (B6) Interest Receivable, however, is not an accurate proxy for MFIs that have long loan terms, extended grace periods, or balloon payments of interest.

significantly and/or consistently lower than the effective interest rate, it may indicate problems with loan collections.

Managers should be careful when averaging or annualizing for the purposes of calculating the Yield. If an MFI's Gross Loan Portfolio is growing quickly, a simple average may distort the calculation of the Yield. Similarly, looking at the Yield for a short period, such as a month, may also distort the Yield. Managers can (and should) look at this ratio on a monthly or quarterly basis and recognize any distortions due to averaging or annualizing.

R5—PORTFOLIO TO ASSETS

Portfolio to Assets = $\frac{\text{Gross Loan Portfolio}}{\text{Assets}}$	$R5 = \frac{B4}{B12}$
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Why This Ratio Is Important

An MFI's primary business is making loans and providing other financial services to microentrepreneurs. This ratio shows how well an MFI allocates its assets to its primary business and, in most cases, its most profitable activity—making loans.

At first glance, a manager can see how well the MFI is deploying its funds into high-yielding microloans. This ratio is most valuable when observed monthly. The Gross Loan Portfolio can fluctuate dramatically month to month if the MFI experiences seasonal spikes in demand for loans. Managers can also use the ratio to identify fluctuations that may result from structural or operational rigidities that cause a high number of loans to be disbursed or repaid at the same time. Depending on the context, this ratio could indicate the need for additional funding or be a sign of excess liquidity. Much depends on the MFI's liquidity requirements and its asset-liability management abilities: MFIs that rely heavily on savings to fund their portfolio tend to be more efficient at maintaining a high and steady Portfolio to Assets ratio.

R6—COST OF FUNDS/ADJUSTED COST OF FUNDS

Cost of Funds = $\frac{\text{Financial Expense on Funding Liabilities}}{(\text{Average Deposits} + \text{Average Borrowings})}$	$R6 = \frac{I8}{(B13^{avg} + B14^{avg} + B15^{avg} + B18^{avg} + B19^{avg})}$
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Why This Ratio Is Important

This ratio gives a blended interest rate for all the MFI's average funding liabilities, deposits, and borrowings. The denominator does not include other liabilities, such as Accounts Payable or a mortgage loan. When compared to (R4), it reveals how the cost of funding the Gross Loan Portfolio with borrowings relates to the Yield on the Gross Loan Portfolio. This relationship is the key element of successful interest rate management.

Financial institutions strive to minimize Cost of Funds and maximize Yield. Ideally, a low Cost of Funds results from an MFI gaining access to Deposits and/or Borrowings at a reasonable cost because depositors and lenders considered it creditworthy. The more creditworthy the MFI, the lower the cost will be. Several reasons exist for why an institution may achieve a low Cost of Funds, however, not all of which are healthy for the institution's long-term growth. For others, Cost of Funds could be quite low because the MFI has access to subsidized borrowings.

The Cost of Funds depends on the market and will therefore vary by country and also by institutional type and legal status. A manager needs to monitor the MFI's Cost of Funds frequently. Perhaps the most valuable use of the ratio is to compare it with (R4), Yield on Gross Portfolio. Managers should seek to maintain a sufficient financial spread between the Cost of Funds and Yield.

Effects of Adjustments

$\text{Cost of Funds} = \frac{\text{Adjusted Financial Expenses on Funding Liabilities}}{\text{(Average Deposits + Average Borrowings)}}$	$R6^{ADJ} = \frac{(\text{Adjusted I8})}{B13^{avg} + B14^{avg} + B15^{avg} + B18^{avg} + B19^{avg}}$
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The Subsidized Cost of Funds Adjustment increases Financial Expenses on Funding Liabilities and increases the Cost of Funds. Compare this ratio with (R4), Yield on Gross Portfolio to see the MFI's *financial spread*—the difference between its borrowing rate and lending rate. Managers may want to monitor their dependence on subsidized borrowings by monitoring the difference between the unadjusted and adjusted Cost of Funds.

R7—DEBT TO EQUITY/ADJUSTED DEBT TO EQUITY

$\text{Debt/Equity} = \frac{\text{Liabilities}}{\text{Equity}}$	$R7 = \frac{B21}{B32}$
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Why This Ratio Is Important

Debt/Equity, a common measurement of an MFI's capital adequacy, indicates the safety cushion the institution has to absorb losses before creditors are at risk. It also shows how well the MFI is able to leverage its Equity to increase assets through borrowing and is frequently called the Leverage ratio. This ratio is usually important for investors and lenders.

The Debt/Equity ratio is a stock ratio, capturing a single moment in time. It can fluctuate daily and should be monitored as frequently as possible by MFIs that are highly leveraged. Managers may also consider looking at the average Debt/Equity over a period of time to get a clearer picture of the risk. Deposit-taking MFIs and saving-based organizations will usually have higher ratios than noncommercial MFIs. In many environments, Debt/Equity levels may be limited by local regulations or indirectly controlled through borrowing restrictions.

Monitoring Debt/Equity alone is insufficient for MFI managers. Other common indicators include Equity/Assets or Equity/Risk-adjusted Assets, which are common banking measures of capital adequacy. The Equity Multiplier (Assets/Equity) is an easy ratio to assess the MFI's leverage because it shows how the MFI has used its equity to grow its assets by taking on debt. None of these Debt/Equity ratios reveal, however, whether the terms and conditions of the MFI's debt are appropriate for the institution's asset base. For management purposes, a manager may also construct tables to monitor the maturities and cost of its debt and monitor any significant difference between the maturity and yield of its assets.

Effects of Adjustments

$\text{Adjusted Debt/Equity} = \frac{\text{Liabilities}}{\text{Adjusted Equity}}$	$R7^{ADJ} = \frac{B21}{\text{Adjusted B32}}$
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Except for the Write-off Adjustment, the adjustments usually result in a decrease in equity. The reduction in Equity will increase this ratio, indicating a higher level of risk to the MFI. If a significant

difference exists between the unadjusted and adjusted ratios, a manager should determine if the MFI's equity base is sufficient to repay all liabilities in difficult times or without subsidies, particularly if the Adjustment for Impairment Loss Allowance is significant.

R8—LIQUID RATIO

$\text{Liquid Ratio} = \frac{\text{Cash} + \text{Trade Investments}}{(\text{Demand Deposits} + \text{Short-term Time Deposits} + \text{Short-term Borrowings} + \text{Interest Payable on Funding Liabilities} + \text{Accounts Payable and Other Short-term Liabilities})}$	$R8 = \frac{B1 + B2}{(B13 + B14 + B15 + B16 + B17)}$
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Why This Ratio Is Important

The Liquid Ratio is one measurement of the sufficiency of cash resources to pay the short-term obligations to depositors, lenders, and other creditors. Financial institutions are particularly vulnerable to cash shortages because their entire business is based on the proper management of cash inflows and outflows. For MFIs, maintaining sufficient cash is important not only to pay bills, salaries, or creditors but also to uphold its promise to provide repeat loans to clients, which is a major incentive for clients to repay loans. Similarly, any financial institution that fails to repay client deposits on time is likely to lose client confidence and access to future funding.

The Liquid Ratio can help managers monitor the sufficiency of cash to meet the most immediate obligations, namely Short-term Deposits and Borrowings and other short-term payables and liabilities. In this Framework, short-term refers to assets and liabilities that can be turned into cash within a year from the date of the statement or report, not from the date of disbursement, issuance, or purchase.¹⁸

No single liquidity ratio is adequate to monitor cash. Managers must have policies in place for cash management to ensure that cash is available on time to all branches and agencies.

Effects of Adjustments

None of the adjustments proposed in this Framework affect the Liquid Ratio.

4.3 PORTFOLIO QUALITY RATIOS

The primary asset of an MFI is its gross loan portfolio. Portfolio quality is important to the financial success of any microfinance institution. Drops in portfolio quality could mean a decline in customer satisfaction and, therefore, may presage a low retention rate resulting in higher costs to recruit new clients. Drops may also signal problems in staff supervision and control. In any case, poor asset quality will result in additional costs and lower income. Examine portfolio quality from several different perspectives to get a clearer picture of the situation. Consider the three ratios presented in this section together, because none of them alone is sufficient for effective analysis.

¹⁸ If managers can break assets and liabilities into different maturities, they may want to apply this ratio to those assets and liabilities due or maturing within three months.

R9—PORTFOLIO AT RISK/ADJUSTED PORTFOLIO AT RISK

$\text{PAR} = \frac{\text{Portfolio at Risk} > 30 \text{ Days} + \text{Renegotiated Loans}}{\text{Gross Loan Portfolio}}$	$\text{R9} = \frac{\text{P14} > 30 \text{ Days} + \text{P16}}{\text{B4}}$
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Why This Ratio Is Important

As discussed in chapter 2, Portfolio at Risk (PAR) is important because it indicates the potential for future losses based on the current performance of the loan portfolio. The PAR ratio is the most widely accepted measure of loan performance in the microfinance industry. PAR > 30 days is often used as the threshold beyond which loans are considered to be at higher risk. This ratio also includes Renegotiated Loans. This not only prevents hiding troubled loans through rescheduling or refinancing, but also indicates a higher level of risk associated with clients who have had repayment problems.

This ratio should be low and fairly stable, and managers should monitor it daily, if possible. When referring to PAR, the MFI should always specify the number of days. Calculating PAR > 1 day is an excellent management tool to monitor loan repayment and the risk of default; it enables managers to address problems before they get out of control. Managers of MFIs that offer loans with a frequent repayment schedule, such as weekly, should be particularly sensitive to PAR > 1 day. Clients with weekly repayments will have missed three or more payments by the time they reach the PAR > 30 days mark.

The PAR ratio by itself provides management MFI very little information about the reason for client delinquency, but comparing portfolio at risk across products, branches, and even loan officers can lead a manager to the problems. Management should track what percentage of PAR is eventually written off. If the percentage is high, it may indicate a systemic problem with collection of delinquent loans. If an MFI is writing off loans immediately, PAR will be low; however, this action creates an unrealistically optimistic picture.

As explained in chapter 2, PAR should not be confused with arrears rate, which is based on late payments and ignores future payments that have not yet fallen due but are already at increased risk because of the existing delinquency.

Effects of Adjustments

$\text{PAR} = \frac{\text{Adjusted Portfolio at Risk} > 30 \text{ Days} + \text{Renegotiated Loans}}{\text{Adjusted Gross Loan Portfolio}}$	$\text{R9}^{\text{ADJ}} = \frac{\text{Adjusted P14} > 30 \text{ Days} + \text{P16}}{\text{Adjusted B4}}$
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The Write-off Adjustment affects this ratio by reducing the size of the Portfolio at Risk and the Gross Loan Portfolio because Portfolio at Risk > 180 days is written off. By limiting the analysis to that part of the portfolio that might still reasonably be repaid, the PAR ratio can help managers focus their efforts on addressing delinquency early.

R10—WRITE-OFF RATIO/ADJUSTED WRITE-OFF RATIO

$\text{Write-off Ratio} = \frac{\text{Value of Loans Written Off}}{\text{Average Gross Loan Portfolio}}$	$\text{R10} = \frac{\text{P7}}{\text{B4}^{\text{avg}}}$
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Why This Ratio Is Important

The Write-off Ratio indicates the past quality of the Gross Loan Portfolio. Write-offs are the greatest threat to an MFI because they result in a reduction in the MFI's assets and its current and future earning potential. A high ratio may indicate a problem in the MFI's collection efforts.

Write-offs are an accounting device to remove persistently delinquent loans from the books; this ratio is highly dependent on an MFI's write-off policy. Managers should monitor this ratio as frequently as write-offs are made.¹⁹ An MFI should disclose its write-off policy, which should be clearly defined, followed, and monitored by the board. An MFI's write-offs should be minimal, however; most MFI's write-off ratios are remarkably low.

The Write-off Ratio is based on the Average Gross Loan Portfolio because Write-offs are usually recorded throughout a period. An aggressive write-off policy reduces the PAR Ratio. For this reason, the PAR Ratio and Write-off Ratio should be viewed together. An aggressive write-off policy should be accompanied by strong loan recovery efforts. Managers should closely watch (P10), Recoveries of Loans Written Off.

Effects of Adjustments

$\text{Adjusted Write-off Ratio} = \frac{\text{Value of Loans Written Off} + \text{Write-off Adjustment}}{\text{Average Adjusted Gross Loan Portfolio}}$	$R10^{\text{ADJ}} = \frac{P7 + A5}{\text{Adjusted B4}^{\text{avg}}}$
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The Write-off Adjustment directly affects the Write-off Ratio by increasing the Value of Loans Written Off and decreasing the Average Gross Loan Portfolio.²⁰ As discussed in chapter 3, MFIs' write-off policies vary, which makes comparisons difficult. The recommended Write-off Adjustment is that all loans more than 180 days past due are written off, and the adjusted ratio reflects this accordingly. If an MFI has and applies a more aggressive write-off policy, this adjustment does not apply.

R11—RISK COVERAGE RATIO/ADJUSTED RISK COVERAGE RATIO

$\text{Risk Coverage Ratio} = \frac{\text{Impairment Loss Allowance}}{\text{Portfolio at Risk > 30 Days}}$	$R11 = \frac{B5^*}{P14 > 30 \text{ Days}}$
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* This ratio is expressed as a positive percentage.

¹⁹ Some MFIs write off loans only once a year, which means that this ratio can only be measured annually.

²⁰ Some methods, including the ACCIÓN CAMEL, calculate this ratio without adjusting the Average Gross Loan Portfolio.

Why This Ratio Is Important

The Risk Coverage Ratio measures how adequate the Impairment Loss Allowance is to account for potential loan losses. Because the Impairment Loss Allowance represents the MFI's preparation for loan losses, the Risk Coverage Ratio is an approximate indicator of how prepared an institution is to absorb loan losses in the worst-case scenario; that is, if all Portfolio at Risk > 30 days became uncollectible. Although the Impairment Loss Allowance is expressed as a negative number on the balance sheet, the Risk Coverage Ratio is expressed as a positive percentage.

Although an institution ideally accounts for the risk of default, this does not mean that this ratio will be 100 percent. As described in chapter 2, the size of the Impairment Loss Allowance depends on the Portfolio Aging Schedule. For example, if most past due loans are more than 180 days past due, the ratio may be close to 100 percent; however, if most past due loans are fewer than 90 days past due, the ratio is likely to be less than 100 percent. In either case, the ratio should be fairly constant. Any sudden change indicates a decline or improvement in the quality of the loan portfolio, or an excess or insufficient Impairment Loss Allowance.

Local regulators or tax authorities may dictate the required risk coverage ratios by dictating allowable loan-loss provision expenses. For all these reasons, management should disclose its entire aging of past due loans, as described in chapter 2.

Effects of Adjustments

Adjusted Risk Coverage Ratio = $\frac{\text{Adjusted Loan Loss Allowance}}{\text{Adjusted Portfolio at Risk > 30 Days} - \text{Write-off Adjustment}}$	R11^{ADJ} = $\frac{\text{Adjusted B5}^*}{\text{Adjusted P14 > 30 Days} - \text{A5}}$
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* This ratio is expressed as a positive percentage.

The Impairment Loss Allowance Adjustment increases the Impairment Loss Allowance and therefore increases the ratio. The Write-off adjustment decreases Portfolio at Risk > 30 days. The adjusted ratio shows how well prepared the MFI would be to absorb losses if it fully accounted for potential losses.

4.4 EFFICIENCY AND PRODUCTIVITY INDICATORS

Efficiency and productivity indicators reflect how well an MFI uses its resources, particularly its assets and personnel. MFIs use many different efficiency and productivity indicators, tailoring them to reflect their own organizational structure, product lines, and monitoring priorities.

MFIs must decide if they want to use the number of personnel or the number of loan officers as their benchmark for human resources in their productivity measures. The purpose for considering loan officers as a separate category is that they are usually directly involved in revenue-generating tasks (that is, making and collecting loans), whereas other personnel are not. A trend toward using total personnel in productivity calculations exists, however, because loan officers' tasks may overlap with the tasks of administrative staff.

In addition to tailoring the denominator selection to the characteristics of the institution, managers should be aware of how loan terms, method of credit delivery, and broader macroeconomic conditions (for example, Gross National Income (GNI) per Capita, local labor costs) can impact the interpretation and usefulness of many of the ratios described in this section. Looking at several of these ratios together can give a more comprehensive and significant description of the current and projected success of an

institution’s financial management. For these reasons, readers should thoroughly understand the components of these indicators and use them in concert.

R12—OPERATING EXPENSE RATIO/ADJUSTED OPERATING EXPENSE RATIO

$\frac{\text{Operating Expense to Average Gross Loan Portfolio}}{\text{Average Gross Loan Portfolio}} = \frac{\text{Operating Expense}}{\text{Average Gross Loan Portfolio}}$	R12 = $\frac{\mathbf{I16}}{\mathbf{B4^{avg}}}$
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Why This Ratio Is Important

The Operating Expense Ratio enables managers to compare quickly administrative and personnel expenses to the MFI’s yield on the gross loan portfolio. For this reason, the Operating Expense ratio is frequently referred to as the efficiency ratio. Monitoring this trend is an easy way to observe if the MFI is increasing its efficiency as it grows its loan portfolio.

The lower the ratio, the more efficient the MFI is. MFIs should strive for a downward trend in this ratio—even when portfolio growth is flat—until they are convinced that no more efficiencies can be found. This ratio may fluctuate from month to month, but it should decline from year to year. Although commercial MFIs and credit unions should have higher operating costs due to the savings services, they have proven themselves extraordinarily efficient in maintaining low operating costs relative to other noncommercial MFIs.

Countless efficiency indicators are available, most of which include an income or expense account divided by a balance sheet account. For example, managers may want to monitor Personnel Expense separately (Personnel Expense/Average Gross Loan Portfolio) to see where staff efficiency gains could be achieved. In calculating these efficiency indicators, MFIs need to select which denominator to use. The most common denominators are as follows:

- Average Gross Loan Portfolio,
- Average Performing Assets, and
- Average Total Assets.

Most MFIs choose the average gross loan portfolio because they calculate other ratios, such as portfolio yield, using this same denominator. Strong arguments exist for using performing assets, however, which is the standard for the commercial banking industry, or average total assets, which is the most easily measured of the three. Regardless of the denominator selected, the MFI should be consistent in its use. To simplify presentation, the Average Gross Loan Portfolio is used throughout this Framework.

Making small loans and delivering financial services in underserved areas is an expensive business. The delivery mechanisms that an MFI chooses can significantly add to the cost per active client. For example, providing on-site service in communities may be more expensive than having clients come to the MFI’s branch office. Managers must continue to decrease the Operating Expense Ratio, even after portfolio growth has slowed. Managers should investigate the cause of changes in operating efficiency—are they due to increasing loan sizes, improving economies of scale, or some new technology? MFIs that tend to make smaller loans will appear to be less efficient. At the same time, tracking changes in this ratio can inform management how well their efforts to find increased efficiencies are producing results.

Effects of Adjustments

Adjusted Operating Expense to Average Gross Loan Portfolio = $\frac{\text{Adjusted Operating Expense}}{\text{Average Adjusted Gross Loan Portfolio}}$	$R12^{ADJ} = \frac{\text{Adjusted I16}}{\text{Adjusted B4}^{avg}}$
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The In-Kind Subsidy Adjustment and Write-off Adjustment affect this ratio by increasing Operating Expense and reducing the Gross Loan Portfolio, respectively. Managers should pay close attention to the adjusted ratio because it reveals how efficient the MFI truly is when all subsidies are removed.

R13—COST PER CLIENT/ADJUSTED COST PER CLIENT

Cost per Client = $\frac{\text{Operating Expense}}{\text{Average Number of Active Clients}}$	$R13 = \frac{I16}{N1^{avg}}$
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Why This Ratio Is Important

In concrete terms, the Cost per Client Ratio indicates to an institution how much it currently spends in Personnel and Administrative Expenses to serve a single active client. It informs the MFI how much it must earn from each client to be profitable. MFI managers are often shocked when they learn that the cost per active client is half the (R18) Average Disbursed Loan Size. This ratio can be used to compare institutions of different sizes because the Average Gross Portfolio is not part of the calculation. Comparing the Cost per Client Ratio with the local GNI per capita provides a rough proxy of labor costs in the local market. Because local labor costs are largely beyond the MFI’s control, managers can determine if a reduction in Cost per Client is the result of reduced cost of labor or more efficient use of labor. When comparing this ratio internationally, managers must consider the difference in national incomes.

Effects of Adjustments

Adjusted Cost per Client = $\frac{\text{Adjusted Operating Expense}}{\text{Average Number of Active Clients}}$	$R13^{ADJ} = \frac{\text{Adjusted I16}}{N1^{avg}}$
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The In-Kind Subsidy Adjustment increases Operating Expense. Managers should pay close attention to the adjusted indicator to understand the true cost of serving clients without subsidies. This adjusted indicator can be a useful indicator for planning—managers can project future costs related to client growth.

R14—BORROWERS PER LOAN OFFICER

Borrowers per Loan Officer = $\frac{\text{Number of Active Borrowers}}{\text{Number of Loan Officers}}$	$R14 = \frac{N3}{N8}$
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Why This Ratio Is Important

The Borrowers per Loan Officer Ratio, used often by MFIs, helps measure personnel productivity of loan staff. Creating caseload targets for loan officers is useful in planning, and this ratio is an easy and effective way to measure progress against such targets.

This ratio will increase until it reaches the optimal range and then plateaus. Managers should monitor it on a monthly basis. Plateaus can be surpassed through structural or technological changes, such as streamlining the methodology or introducing technology. Plateaus also may be overcome by increasing staff incentives for efficiency, such as loan officer bonuses. The Borrowers per Loan Officer Ratio helps managers monitor the gains realized from implementing these changes.

This ratio depends on the local environment, such as population density and ease of access to clients. It can also vary drastically due to product terms and conditions (for example, individual versus group loans) and methodology (frequency of meetings). MFIs should monitor gains with an eye on the portfolio at risk to ensure that productivity gains are not achieved at the expense of asset quality. The Borrowers per Loan Officer Ratio may be distorted if an MFI adds a group of new loan officers near the end of the period. If the MFI is growing quickly, adding both borrowers and loan officers, managers may want to use period averages for the numerator and denominator.

MFIs are recommended to follow the definition of loan officer in chapter 2 (see N8 in table 2.13). For management purposes, MFIs may also substitute Number of Loans Outstanding as a surrogate for Number of Active Borrowers provided that they explain the definition of the numerator and denominator.

Effects of Adjustments

The adjustments recommended in this Framework do not affect this indicator. If the MFI chooses to use Number of Loans Outstanding per Loan Officer (see paragraph above), managers should incorporate the Write-off Adjustment, which reduces the Number of Loans Outstanding.

R15—ACTIVE CLIENTS PER STAFF MEMBERS

Active Clients per Staff Member =	<u>Number of Active Clients</u> Number of Personnel	R15 =	<u>N1</u> N7
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Why This Ratio Is Important

Measuring the overall productivity of staff is vital and requires examining the ability of the MFI's personnel to manage all its clients, including borrowers, voluntary savers, and other clients. As MFIs offer more products to meet their clients' diverse financial needs, Active Clients per Staff Members is more relevant than Borrowers per Loan Officer as the primary productivity ratio for personnel.

This ratio will vary according to the same conditions described in (R14), Borrowers per Loan Officer, above. Managers should see a positive trend in this productivity ratio. A low ratio does not mean that staff members are not working hard. Internal issues, such as excess paperwork or procedures, or external factors, such as remote service locations, contribute to lower productivity. Each MFI will have its own optimal number of clients per staff person and should set this target in its business plan. If MFIs follow the definition of active client presented in the Framework, this ratio is also a useful measurement for managers to compare the MFI with other institutions.

Effects of Adjustments

The adjustments recommended in this Framework do not affect this indicator.

R16—CLIENT TURNOVER

Client Turnover =	$\frac{\text{Number of Active Clients, Beginning of Period} + \text{Number of New Clients During Period}}{\text{Number of Active Clients, End of Period}}$	R16 =	$\frac{N1^0 + N2 - N1^1}{N1^{avg}}$
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Why This Ratio Is Important

The Client Turnover Ratio is frequently used by managers to determine the level of client satisfaction with the MFI's products and services. Many reasons exist for a client to leave an MFI, but studies indicate that lack of flexible and demand-driven products continues to be a major cause of client departures. The generally accepted tenet is that the cost of retaining clients is significantly lower than the cost of recruiting new clients.²¹ Therefore, measuring client turnover is a valuable management tool to understand when clients are leaving. Management must then determine why.

The term *turnover* rather than *loss* is used for this ratio because although some clients may leave or become inactive for a period of time, not all these clients are lost to the MFI. If inactive clients can be brought back into activity, loans to them tend to be less risky and require less staff time. Some additional cost to the MFI of client turnover exists, however, even when clients return. If managers notice that many clients are leaving and returning, they may want to modify their policies to retain good clients and make it easier for returning good clients to access loans and other services. Managers may want to look at Borrower Turnover only, using the Number of Active Borrowers for analysis.

As MFIs mature and add products, client turnover is more difficult to measure and less meaningful. It may not be in clients' best interests to be perpetually in debt. Determining the active status of clients who use occasionally use non-credit services, such as remittance services, is difficult. This ratio may also be lower for MFIs that take deposits and have multiple small deposit accounts.

Although not perfect, the ratio is still commonly used but calculated in different ways by managers. Managers are recommended to use this calculation for client turnover for the purpose of comparison.

Effects of Adjustments

The adjustments recommended in this Framework do not affect this indicator.

R17—AVERAGE OUTSTANDING LOAN SIZE/AVERAGE ADJUSTED OUTSTANDING LOAN SIZE

Average Outstanding Loan Size =	$\frac{\text{Gross Loan Portfolio}}{\text{Number of Loans Outstanding}}$	R17 =	$\frac{B4}{P3}$
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Why This Ratio Is Important

There is increasing evidence that Average Outstanding Loan Size is not an accurate proxy of the poverty level of clients. However this ratio is still widely used by MFIs to monitor the depth of outreach among lower-income clients. Loan size is also a major driver of profitability and can be used by managers to project portfolio growth.

²¹ See Brigit Helms and Imran Matin, 2000, *Those Who Leave and Those Who Never Join: Insights from East African Microfinance Institutions*, Focus Note No. 16 (Washington, D.C.: CGAP).

The average outstanding loan size is one proxy for an MFI to measure its ability to reach poorer clients. Although several factors other than the income level of the client contribute to smaller outstanding loan sizes, a correlation exists between this ratio and the average income level of the areas served. It is informative for MFI managers to monitor this ratio in light of the GNI per capita and the Cost per Client.

Effect of Adjustments

Average Outstanding Loan Size = $\frac{\text{Adjusted Gross Loan Portfolio}}{\text{Adjusted Number of Loans Outstanding}}$	$R17^{ADJ} = \frac{\text{Adjusted B4}}{P3 - A5.2}$
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The Write-off adjustment has the effect of reducing the Gross Loan Portfolio and the Number of Loans Outstanding. This adjusted ratio will eliminate distortions of the Average Outstanding Loan Size by eliminating loans that have been past due for a long period of time, many of which have small outstanding balances.

R18—AVERAGE LOAN DISBURSED

Average Loan Disbursed = $\frac{\text{Value of Loans Disbursed}}{\text{Number of Loans Disbursed}}$	$R18 = \frac{P2}{P1}$
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Why This Ratio Is Important

Managers frequently track the Average Loan Disbursed Ratio because it drives profitability and indicates the increase in the demand for loans and clients’ capacity to manage debt.

Although this ratio may fluctuate, managers should not see significant spikes or declines between periods. The ratio tells only part of a story—that average loan sizes are increasing or decreasing. To understand why, managers must determine if the growth in average loan size is demand driven, reflecting the growth in client business and their capacity to manage debt, or if it is supply or structural, driven by programmed step-credit methodologies or loan officers’ incentives to increase the size of their accounts. It should be monitored with (R9) Portfolio at Risk to see if increased loan size is having a detrimental effect on portfolio quality.

Table 4.2 provides a summary of the SEEP 18 and calculations using the accounts in the sample statements and reports from chapters 2 and 3. This table assumes that the MFI has data from the beginning of 2002, which is used to calculate the averages used in the ratios for 2003.

TABLE 4.2: CALCULATING THE SEEP 18

Ref.	Account Name	Formula	As of 31/12/2004	As of 31/12/2003
R1	Operational Self-sufficiency (OSS)	$R1 = \frac{I1}{(I7 + I13 + I16)}$	113%	138%
	Financial self-sufficiency (FSS)	$R1^{ADJ} = \frac{I1}{(\text{Adjusted } I7 + \text{Adjusted } I13 + \text{Adjusted } I16)}$	85%	73%
R2	Return on Assets (ROA)	$R2 = \frac{(I21 - I26)}{B12^{avg}}$	1.9%	3.4%
	Adjusted Return on Assets (AROA)	$R2^{ADJ} = \frac{\text{Adjusted } I21 - I26}{\text{Adjusted } B12^{avg}}$	- 5.5%	- 17.6%
R3	Return on Equity (ROE)	$R3 = \frac{(I21 - I26)}{B32^{avg}}$	3.1%	5.4%
	Adjusted Return on Equity (AROE)	$R3^{ADJ} = \frac{\text{Adjusted } I21 - I26}{\text{Adjusted } B32^{avg}}$	- 8.9%	- 28.4%
R4	Yield on Gross Portfolio	$R4 = \frac{C1}{B4^{avg}}$	36.3%	29.6%
R5	Portfolio to Assets	$R5 = \frac{B4}{B12}$	71%	50%
R6	Cost of Funds Ratio	$R6 = \frac{I8}{B14^{avg} + B15^{avg} + B18^{avg} + B19^{avg}} \times (B13^{avg} + B14^{avg} + B15^{avg} + B18^{avg} + B19^{avg})$	4.3%	4.4%
	Adjusted Cost of Funds	$R6^{ADJ} = \frac{(\text{Adjusted } I8)}{(B13^{avg} + B14^{avg} + B15^{avg} + B18^{avg} + B19^{avg})}$	7.4%	8.6%
R7	Debt to Equity	$R7 = \frac{B21}{B32}$	63%	64%
	Adjusted Debt to Equity	$R7^{ADJ} = \frac{B21}{\text{Adjusted } B32}$	63%	64%
R8	Liquid Ratio	$R8 = \frac{B1 + B2}{(B13 + B14 + B15 + B16 + B17)}$	201%	915%
R9	PAR Ratio	$R9 = \frac{P14 > 30 \text{ Days} + P16}{B4}$	3.8%	4.5%
	Adjusted PAR Ratio	$R9^{ADJ} = \frac{\text{Adjusted } P14 > 30 \text{ Days} + P16}{\text{Adjusted } B4}$	3.8%	6.8%
R10	Write-off Ratio	$R10 = \frac{P7}{B4^{avg}}$	1.0%	0%
	Adjusted Write-off Ratio	$R10^{ADJ} = \frac{P7 + A5}{\text{Adjusted } B4^{avg}}$	1.6%	4.4%
R11	Risk Coverage Ratio	$R11 = \frac{B5}{P14 > 30 \text{ Days}}$	60%	78%
	Adjusted Risk Coverage Ratio	$R11^{ADJ} = \frac{\text{Adjusted } B5}{\text{Adjusted } P14 > 30 \text{ Days} - A5}$	54%	26%

Ref.	Account Name	Formula	As of 31/12/2004	As of 31/12/2003
R12	Operating Expense Ratio	$R12 = \frac{I16}{B4^{avg}}$	33%	22%
	Adjusted Operating Expense Ratio	$R12^{ADJ} = \frac{\text{Adjusted } I16}{\text{Adjusted } B4^{avg}}$	40%	34%
R13	Cost per Active Client	$R13 = \frac{I16}{N1^{avg}}$	1,154	650
	Adjusted Cost per Active Client	$R13^{ADJ} = \frac{\text{Adjusted } I16}{N1^{avg}}$	1,351	951
R14	Borrowers per Loan Officer	$R14 = \frac{N3}{N8}$	180	226
R15	Active Clients per Staff Member	$R15 = \frac{N1}{N7}$	127	129
R16	Client Turnover	$R16 = \frac{N1^0 + N2 - N1^1}{N1^{avg}}$	7.9%	10.3%
R17	Average Outstanding Loan Size	$R17 = \frac{B4}{P3}$	3,812	3,103
	Adjusted Average Outstanding Loan Size	$R17^{ADJ} = \frac{\text{Adjusted } B4}{P3 - A5.2}$	3,849	3,239
R18	Average Loan Disbursed	$R18 = \frac{P2}{P1}$	4,965	4,500

5 CREATING AND ANALYZING PERFORMANCE MONITORING REPORTS

Creating financial performance monitoring reports is only part of an overall performance monitoring system. This system begins with drafting a business plan, managing for results, monitoring progress, and holding management and staff accountable for results. All institutions create reports to manage for results and monitor progress. The content of performance monitoring reports varies according to the purpose of the specific report and the needs and demands of the user. The reports must include not only data and details, but they must also provide some meaningful analysis of an MFI's performance and condition.

Chapter 4 includes a detailed explanation of the SEEP 18 ratios and indicators important for analysis. This chapter briefly presents the following three types of analysis:

- Trend analysis,
- Variance analysis, and
- Benchmarking.

These types of analysis are used in one or more of the following sample templates for financial performance reports for MFIs:

- Monthly management report,
- Quarterly management report,
- Quarterly board report,
- Semiannual donor report, and
- Semiannual investor report.

The templates for reporting are presented only as simple examples and are intended to encourage managers, board members, donors, and others to develop and use their own reports. Managers should determine the content of these reports by analyzing the following four issues:

- The *timeliness* of data depends on the frequency with which an MFI can produce data needed and on the time it takes to produce it;
- The *accuracy* and *integrity* of data depend not only on the information system, but also on the competence of the user and the checks and controls in place;
- The *relevance* of the data depends on the user—communicating less information is often better than providing detailed information that is not instructive; and
- The *requirements* of board members, donors, investors, and others must be respected. Management should carefully review the requirements of statutes, agreements, and contracts when designing their reports.

5.1 ANALYSIS OF FINANCIAL STATEMENTS AND INDICATORS

Financial analysis is the art of interpreting financial statements and indicators—it requires managers to look at past performance, analyze it, and use the lessons learned to make today's decisions. Without

analysis, creating financial statements is an accounting exercise. In addition to ratio analysis, several ways are available to use financial statements and ratios to learn more about an MFI's performance.

5.1.1 TREND ANALYSIS

Trend analysis is the examination of a company's financial statements and indicators over time to determine how actions affect results. Financial statements for a single period do not reveal much about the institution. The best method for performing trend analysis is to either compare the current period to a previous period of the same length, such as the previous quarter and the current quarter, or to annualize the indicators for the current period and compare the annualized indicators to the previous year.

The basic formula for determining the change in an account is as follows:

$$P^{\text{trend}} = \frac{P^1 - P^0}{P^0}$$

This ratio enables managers to calculate the relative change between periods. For example:

$$\text{Gross Loan Portfolio}^{\text{trend}} = \frac{1,500,000 - 1,250,000}{1,250,000} = 20\%$$

This formula can also be used for ratios; for example:

$$\text{FSS}^{\text{trend}} = \frac{85\% - 73\%}{73\%} = 16\%$$

The above formula indicates that Financial Self-Sufficiency (FSS) has increased relative to the previous period by 16 percent. For ratios, examining the absolute change between periods rather than the relative change is customary. The calculation for the absolute change is more commonly used when comparing ratios from two different periods. The following formula is used:

$$R^{\text{trend}} = R^1 - R^0$$

In this case, the following result occurs:

$$\text{FSS}^{\text{trend}} = 85\% - 73\% = 12\%$$

This formula indicates that in absolute terms, FSS is 12 percent higher than the previous year. This convention is more customary for analyzing ratios.

When analyzing the changes in accounts or ratios, determining why the accounts or ratios are increasing or decreasing is important. For example, management should be familiar with seasonal trends, such as strong portfolio growth during a holiday season, to distinguish seasonal fluctuations from general business trends. An example is in box 5.1 below.

Box 5.1: Example of Trend Analysis Calculations

MICRO MFI wants to determine if it has improved its performance over the previous year. To do this, management wants to look at the MFI's performance at the end of the first semester and compare it to the previous year's performance. It chooses to look at three accounts and three ratios.

		A	B	C	D	E=(C - D)/C
	Account	Current period	Annualization factor (12/6 = 2)	Annualized account	Previous year	Increase/(Decrease) (%)
I19	Net Operating Income	65,000	2	190,000	120,000	8.3
P2	Value of Loans Disbursed	5,500,000	2	11,000,000	8,600,000	28
B4	Gross Loan Portfolio	2,340,000	N/A	2,340,000	1,850,000	26
		A	B	C=(A x C)	D	E=(C - D)
		Quarterly ratio (%)	Annualization factor (12/3 = 4)	Annualized ratio (%)	Previous year (%)	Increase/(Decrease) (%)
R1	Operational Self-Sufficiency	92	N/A	92	91	1
R2	Adjusted Return on Asset	- 1.3	2	- 2.6	- 4	1.4
R12	Operating Expense Ratio	19	2	38	35	- 3

In calculating the trends, the MFI must annualize all *flow data*, such as (I19) Net Operating Income and (P2) Value of Loans Disbursed, and ratios that contain a mixture of flow data and *stock data*, such as (R2) Adjusted Return on Assets and (R12) Operating Expense Ratio. Because the (B4) Gross Loan Portfolio is stock data and (R1) Operational Self-Sufficiency contains only flow data, neither needs to be annualized.

The analysis reveals that the MFI is performing better overall than the previous year. This improvement is led by the increase in Net Operating Income, up 8.3 percent on an annualized basis. As noted above, Operational Self-Sufficiency is up only slightly (1 percent), but this is with a much larger increase in the Value of Loans Disbursed (28 percent) and Gross Loan Portfolio (26 percent). MICRO MFI management should investigate why strong growth has led to only modest increases in profitability.

5.1.2 VARIANCE ANALYSIS

Variance analysis is accomplished by comparing actual performance to the MFI's projected performance. This type of analysis is a powerful tool to measure management's success or failure in meeting its goals. Because MFIs invest time and resources in planning, ensuring that the planning process does not end with the printing of the document is important. The formula for Variance analysis is as follows:

$$p^{\text{var}} = \frac{p^{\text{actual}}}{p^{\text{plan}}}$$

This ratio enables managers to calculate the relative change between periods. For example:

$$\text{Gross Loan Portfolio}^{\text{var}} = \frac{1,500,000}{1,600,000} = 93.75\%$$

The MFI met 93.75 percent of its goal for growth in its Loan Portfolio. For ratios, the same formula can be used:

$$\text{OSS}^{\text{var}} = \frac{109\%}{125\%} = 87.2\%$$

This equation indicates that the MFI reached 87.2 percent of its OSS goal. Similar to trend analysis, planned and actual performance may be compared by looking at the absolute difference between the two ratios:

Box 5.2: Example of Variance Analysis Calculations

MICRO MFI wants to determine how well it is meeting its annual revenue targets. To do this, management wants to look at the MFI's performance at the end of the third quarter to determine its progress. They choose to look at two accounts and two indicators.

		A	B	C = A/C	D	E = C/D
	Account	Current Period	Annualization Factor (12/9 = 1.33)	Annualized Account	Annual Target	Achieved (annualized) (%)
I1	Financial Revenue	900,000	1.33	1,197,000	950,000	126
I19	Net Operating Income	120,000	1.33	159,600	175,000	91
		A	B	C=(A x C)	D	E=(C - D)
		Quarterly Ratio	Annualization Factor (12/9 = 1.33)	Annualized Ratio	Target Ratio	Over/ (Under) Target (%)
R4	Yield on Gross Portfolio	51%	1.33	67.8%	55%	12.8
R1	Operational Self-Sufficiency	87%	N/A	87%	100%	- 13

In calculating the variance, the MFI must annualize all flow data, such as (I1) Financial Revenue and (I19) Net Operating Income, and ratios that contain a mixture of flow data and stock data, such as (R4) Yield on Gross Portfolio. Because (R1) Operational Self-Sufficiency contains only flow data, it does not need to be annualized.

Variance analysis reveals that MICRO MFI has already achieved its year-end target for Financial Revenue (126 percent) and is well on its way to achieving its Net Operating Income target by the end of the year, having already reached 91 percent of that target. This might be explained by the next two ratios, which show that MICRO MFI's yield is 12 percent higher than projected, leading to higher than expected Financial Revenue. At the same time, its Operational Self-Sufficiency is 13 percent below the target. This analysis suggests that although MICRO MFI is exceeding its revenue targets, the MFI is also exceeding its budgeted expenses. Expanding this analysis to other accounts and ratios will help management pinpoint the cause and magnitude of the higher costs.

$$R^{var} = R^{actual} - R^{plan}$$

$$OSS^{var} = 109\% - 125\% = -16\%$$

In this case, the MFI is said to have missed its OSS goal by 16 percent.

An example of variance analysis is shown in Box 5.2.

5.1.3 BENCHMARKING

Benchmarking is the process of comparing a single institution's performance to that of its peers. The value of benchmarking depends on the availability and quality of comparative data. Fortunately, a fairly large body of quality comparative data is now available for benchmarking through the *MicroBanking Bulletin*, rating agencies, and international and local network organizations. This Framework is intended to further the availability of data by promoting standard definitions and formats so that data can be easily shared across institutions and continents.

Comparisons across institutions or peer groups require caution. Local conditions, institutional characteristics, and the management choices affect institutional performance. Further, unless the number of institutions in the peer group is sufficient, averages and median calculations may be misleading. Box 5.3 provides an explanation of how the *MicroBanking Bulletin* creates peer groups.

Box 5.3: Peer Groups for Benchmarking

Peer groups are sets of programs that have similar characteristics—similar enough that their managers find it useful to compare their results with those of other organizations in their peer groups. The *MicroBanking Bulletin* forms peer groups based on three main indicators: region, scale of operations, and target market. Although the criteria are occasionally modified to reflect changes in the global industry, peer groups are created using the following guidelines.

Region	Scale of Operations	Target Market
	Gross Loan Portfolio (in US\$)	<u>Average Outstanding Loan Size</u> GNP per capita
Africa	Large—8 million or more	High—150–249%
Asia	Medium—2–8 million	Broad—20–149%
Eastern Europe/Central Asia (ECA)	Small—2 million or less	Low— < 20% or Average Outstanding Loan Size ≤ \$150]
Middle East/North Africa (MENA)		
Latin America	Large—15 million or more	
	Medium—4–15 million	
	Small—4 million or less	

5.2 PERFORMANCE MONITORING REPORTS

Management is responsible for designing reports for performance monitoring. Performance monitoring reports are not a replacement for financial statements or annual reports (see box 5.4); rather they

combine important data—accounts, ratios, and indicators—that are important to the user. They may also include some analysis for the user. For each audience, management must determine what information is needed and how frequently the information is required. This section provides some sample formats that managers may find useful when designing reports for themselves, their board of directors, donor agencies, and investors.

Managers must be aware that any ratio that combines *flow data* and *stock data* must be annualized, such as the Net Operating Income from the income statement and Gross Loan Portfolio from the balance sheet (see Chapter 1).

5.2.1 MONTHLY MANAGEMENT REPORT

Many MFIs do not produce full financial statements on a monthly basis. At a minimum, MFIs should produce an unadjusted monthly income statement, cash flow statement, and portfolio report. Ideally, the financial statements should be calculated for the current month and the year to date. Managers should

Box 5.4: Annual Reports

Annual reports, the most common reports produced by financial institutions, are the most important reports for MFI analysts, donors, lenders, and investors. Annual reports usually contain audited financial statements and written analyses of the MFI's performance. As with commercial banks, an increasing number of MFIs are producing comprehensive, colorful annual reports that include not only financial statements and ratios, but also detailed summaries of the year's activities, areas of operation, and management's outlook.

Several resources are available to assist MFIs in developing annual reports. The Microfinance Financial Definitions: Guidelines and Financial Disclosure Guidelines for Microfinance Institutions produced by CGAP is a good place for MFIs to start designing their annual reports.

also create a monthly management report that summarizes the key accounts and indicators. This monthly report should be concise, include relevant information for monthly decision-making, and be shared throughout the institution. A sample monthly management report is shown in Table 5.1.

TABLE 5.1: SAMPLE MONTHLY MANAGEMENT REPORT

Ref.	Starting 1/1/2004 Ending 6/30/2004	Current Month	Year-to- Date	Plan for 12/31/2004	% Achieved
Outreach					
P1	Number of Loans Disbursed during the Period	2,571	12,859	30,000	43
P2	Value of Loans Disbursed during the Period	11,099,427	71,709,752	150,000,000	49
N3	Number of Active Borrowers	12,957	12,957	13,500	96
N4	Number of Voluntary Depositors	489	489	750	65
Profitability					
I1	Financial Revenue	1,616,733	9,700,397	18,000,000	54
I21	Net Operating Income	(213,480)	(330,368)	2,500,000	- 13
Portfolio Quality					
P14	Portfolio at Risk (PAR) > 30 days	2,146,550	2,146,550	2,000,000	107
P13	Number of Loans at Risk > 30 Days	3,254	3,254	2,500	130
R9	PAR Ratio	5.2%	5.2%	5.0%	0.2
R10	Write-off Ratio	0.2%	0.3%	0.5%	- 0.2
Asset/Liability Management					
B4	Gross Loan Portfolio	45,235,510	45,235,510	50,000,000	92
R4^a	Yield on Gross Portfolio	32.5%	34%	32%	2
B13 + B14 + B18	Total Deposits	5,240,000	5,240,000	10,000,000	52
Liquidity					
B1	Cash and Due from Banks	5,687,200	5,687,200	4,600,000	124
C23 C47	Net Change in Cash and Due from Banks	- 45,258	1,345,090	2,000,000	67
R8	Liquid Ratio	295%	295%	200%	95
Efficiency and Productivity					
I16	Operating Expense	1,808,669	9,043,345	12,000,000	75
R12*	Operating Expense Ratio	54.5%	45.4%	27%	18.4
R17	Average Outstanding Loan Size	3,645	3,645	3,750	97

^a Annualized.

Variance analysis (as shown in Box 5.2) helps managers measure their progress toward meeting the MFI's annual targets. If managers have monthly targets, they can measure progress against the current month's target—an optimal variance would be greater than or equal to 100 percent. If the MFI has only annual targets, managers can measure the year-to-date performance against the annual target. The variance will show how much of the goal the MFI has achieved thus far and which is likely to be less than 100 percent for much of the year. For example, in June the MFI may have achieved 60 percent of its annual target for (I1) Financial Revenue.

Due to fluctuations in monthly operations, trend analysis may not be the most useful management tool. Managers wanting to perform monthly trend analysis might learn more by comparing the current year-to-date data with the previous year-to-date data rather than the current and previous month. Conducting benchmarking analysis based on monthly results is difficult also because most comparable data sets are based on annual adjusted data.

5.2.2 QUARTERLY OR SEMIANNUAL MANAGEMENT REPORTS

Managers should be able to create adjusted financial statements for every quarter and semester, including a portfolio report and a complete set of the SEEP 18 ratios. As with the monthly financial statements, the quarterly or semiannual income statement and cash flow statement should include the results for the quarter and the year-to-date. A useful analysis for quarterly or semiannual income statements is to divide each income statement account by (I1) Financial Revenue. This *revenue analysis* (presented in table 5.2) shows how much each revenue account contributes to Financial Revenue and how much of the Financial Revenue each expense account consumes.

MFI managers can also use the quarterly or semiannual balance sheet for *asset allocation analysis*. A good measure of MFI efficiency is how well it allocates its assets to *earning assets*—those which generate Financial Revenue, including the (B4) Gross Loan Portfolio, (B2) Trade Investments, and (B8) Other Investments. Managers can divide each balance sheet account by (B12) Total Assets to determine the allocation of assets. This calculation (shown in Table 5.3) also reveals how these assets are funded, showing what percentage of assets are funded by each liability and equity account.

TABLE 5.2: SAMPLE QUARTERLY INCOME STATEMENT WITH REVENUE ANALYSIS

Ref.	Income Statement	Current Quarter From 6/30/2004 to 9/30/2004	Year-to-Date From 1/1/2004 to 9/30/2004	Year-to-Date 1/1/2004 to 9/30/2004 Adjusted	As % of (I1) Financial Revenue
I1	Financial Revenue	3,226,166	12,926,563	12,926,563	100
I2	Financial Revenue from Loan Portfolio	3,052,550	12,096,873	12,096,873	94
I3	Interest on Loan Portfolio	1,941,460	9,707,298	9,707,298	75
I4	Fees and Commissions on Loan Portfolio	1,111,090	2,389,575	2,389,575	18
I5	Financial Revenue from Investments	159,783	719,024	719,024	6
I6	Other Operating Revenue	13,833	110,667	110,667	1
I7	Financial Expense	198,791	670,328	2,995,150	23
I8	Financial Expense on Funding Liabilities	149,191	571,128	1,124,864	9
I9	Interest and Fee Expense on Deposits	51,269	179,440		
I10	Interest and Fee Expense on Borrowings	97,922	391,688		
I11	Other Financial Expenses	49,600	99,200	1,870,286	14
I12	Net Financial Income	3,027,376	12,256,235	9,931,413	77
I13	Impairment Losses on Loans	407,822	815,644	815,644	6
I14	Provision Expense on Impaired Loans				
I15	Value of Loans Recovered				
I16	Operating Expense	2,064,565	11,107,910	12,430,210	96
I17	Personnel Expense	673,671	6,090,000	6,425,000	50
I18	Administrative Expense	1,390,894	5,017,910	6,005,210	46
I19	Depreciation and Amortization Expense	299,563	1,198,252	1,198,252	9
I20	Other Administrative Expense	1,091,331	3,819,658	4,806,958	37
I21	Net Operating Income	554,988	332,681	(3,314,441)	- 26
I22	Net Non-Operating Income	(699,836)	(1,204,182)	(1,204,182)	- 9
I23	Non-Operating Revenue	195,490	586,471	586,471	5
I24	Non-Operating Expense	(895,326)	(1,790,653)	(1,790,653)	- 14
I25	Net Income (Before Taxes and Donations)	(144,848)	(871,501)	(4,518,622)	- 35
I26	Taxes	190,204	380,408	380,408	3
I27	Net Income (After Taxes and Before Donations)	(335,052)	(1,251,909)	(4,899,030)	- 38
I28	Donations	3,054,667	4,582,000	4,582,000	35
I29	Donations for Loan Capital	—	—	—	0
I30	Donations for Operating Expense	3,054,667	4,582,000	4,582,000	35
I31	Net Income (After Taxes and Donations)	2,719,615	3,330,091	(317,030)	- 2

TABLE 5.3: SAMPLE QUARTERLY BALANCE SHEET WITH ASSET ALLOCATION ANALYSIS

Ref.	Balance Sheet As of 9/30/2004	Current Year	Adjusted Current Year	As % of (B12) Total Assets
Assets				
B1	Cash and Due from Banks	4,168,880	4,168,880	6
B2	Trade Investments	14,673,450	14,673,450	20
B3	Net Loan Portfolio	47,200,031	47,200,031	64
B4	Gross Loan Portfolio	49,492,285	49,228,881	67
B5	Impairment Loss Allowance	(2,292,255)	(2,028,851)	- 3
B6	Interest Receivable on Loan Portfolio	1,974,141	1,974,141	3
B7	Accounts Receivable and Other Assets	837,360	837,360	1
B8	Other Investments	1,165,420	1,165,420	2
B9	Net Fixed Assets	3,087,156	3,266,615	4
B10	Fixed Assets	6,384,031	6,563,490	9
B11	Accumulated Depreciation and Amortization	(3,296,875)	(3,296,875)	- 4
B12	Total Assets	73,106,438	73,285,897	100
Liabilities				
B13	Demand Deposits	—	—	0
B14	Short-term Time Deposits	2,054,327	2,054,327	3
B15	Short-term Borrowings	1,779,056	1,779,056	2
B16	Interest Payable on Funding Liabilities	320,189	320,189	0
B17	Accounts Payable and Other Short-term Liabilities	490,098	490,098	1
B18	Long-term Time Deposits	3,000,000	3,000,000	4
B19	Long-term Borrowings	16,661,750	16,661,750	23
B20	Other Long-term Liabilities	3,329,548	3,329,548	5
B21	Total Liabilities	27,634,968	27,634,968	38
Equity				
B22	Paid-In Capital	12,000,000	12,000,000	16
B23	Donated Equity	35,648,489	35,648,489	49
B24	Prior Years	32,593,822	32,593,822	44
B25	Current Year	3,054,667	3,054,667	4
B26	Retained Earnings	(2,666,592)	(6,313,714)	- 9
B27	Prior Years	(1,414,683)	(1,414,683)	- 2
B28	Current Year	(1,251,909)	(4,899,030)	- 7
B29	Reserves	489,574	489,574	1
B30	Other Equity Accounts	—	—	0
B31	Adjustments to Equity		3,826,581	5
B31-1	Subsidized Cost of Funds Adjustment		553,736	1
B31-2	In-Kind Subsidy Adjustment		1,322,300	2
B31-3	Inflation Adjustment		1,950,545	3
B32	Total Equity	45,471,470	45,650,929	62

Management may want to create a quarterly report that summarizes the key results of the quarter by combining accounts and ratios to create a concise, complete, and informative performance monitoring report. These performance monitoring reports are valuable for trend analysis, variance analysis, and benchmarking and should be shared throughout the institution. A sample of this report is shown below in Table 5.4. Some additional information on trend analysis can be found in box 5.1.

TABLE 5.4: SAMPLE QUARTERLY MANAGEMENT REPORT

Ref.	Account Name	As of 12/31/2003	As of 9/30/2004	Trend as of 9/30/2004 (%)	Plan Target for 9/30/2004	Variance (%)	Benchmark
Outreach and Activity							
N1	Number of Active Clients	11,458	13,960	22	15,000	93	N/A
N3	Number of Active Borrowers	10,857	13,058	20	13,500	97	22,627
N5	Number of Deposit Accounts	254	489	93	750	65	N/A
P1	Number of Loans Disbursed	26,990	23,147	14	30,000	77	N/A
P2	Value of Loans Disbursed	121,456,864	122,664,850	35	150,000,000	82	N/A
N7	Number of Personnel	89	102	15	110	93	118
N8	Number of Loan Officers	48	70	46	75	93	N/A
Profitability							
I1	Financial Revenue	10,564,338	12,926,563	63	18,000,000	72	N/A
I21	Net Operating Income	2,915,093	332,681	-84	2,500,000	13	N/A
R1	Operational Self-Sufficiency (OSS)	138%	103%	-35	130%	-27	128%
	Financial Self-Sufficiency (FSS)	73%	80%	6	100%	-20	123%
R2^a	Return on Assets (ROA)	3.4%	1.1%	-2.3%	5%	-4%	N/A
	Adjusted Return on Assets (AROA)	-18%	-3.0%	14.6%	-5%	2%	4%

Ref.	Account Name	As of 12/31/2003	As of 9/30/2004	Trend as of 9/30/2004 (%)	Plan Target for 9/30/2004	Variance (%)	Benchmark
R3 ^a	Return on Equity (ROE)	5.4%	1.8%	- 3.6%	15%	- 13%	N/A
	Adjusted Return on Equity (AROE)	- 28.4%	- 9.7%	18.7%	- 10%	0%	9%
Portfolio Quality							
I13	Impairment Losses on Loans	162,862	815,644	401%	1,500,000	54%	N/A
R9	PAR Ratio	4.5%	5.1%	0.6%	5.0%	0%	N/A
	Adjusted PAR Ratio	6.8%	5.1%	- 1.7%	5.0%	0%	3.4%
R10	Write-off Ratio	0.3%	1.8%	1.5%	0.5%	1%	N/A
	Adjusted Write-off Ratio	3.5%	2.1%	- 1.4%	0.5%	2%	N/A
R11	Risk Coverage Ratio	78%	82%	3.6%	75.0%	7%	N/A
	Adjusted Risk Coverage Ratio	26%	74%	48.1%	75.0%	- 1%	120%
Asset/Liability Management							
B4	Gross Loan Portfolio	34,701,961	49,228,881	42%	50,000,000	98%	323,371,248
R5	Portfolio to Assets	50%	67%	17%	75%	- 8%	78%
B13 + B14 + B18	Total Deposits	4,030,868	5,054,327	25%	5,000,000	101%	12,047,040
R4 ^a	Yield on Gross Portfolio	30%	38%	8%	32%	6%	38%
R6 ^a	Cost of Funds Ratio	4.4%	4.2%	- 0.2%	5%	- 1%	N/A
	Adjusted Cost of Funds	8.6%	7.2%	- 1.4%	8%	- 1%	7%
R7	Debt to Equity	64%	61%	- 3%	65%	- 4%	1.7
	Adjusted Debt to Equity	64%	61%	- 4%	65%	- 4%	N/A
Liquidity							
B1	Cash and Due from Banks	1,146,142	4,168,880	264%	4,600,000	91%	N/A

Ref.	Account Name	As of 12/31/2003	As of 9/30/2004	Trend as of 9/30/2004 (%)	Plan Target for 9/30/2004	Variance (%)	Benchmark
C13, C37	Cash Flows from Operating Activities	(8,985,325)	(1,070,260)	- 88%	(1,000,000)	- 7%	N/A
R8	Liquid Ratio	9.1	4.06	- 56%	2.0	203%	N/A
Efficiency and Productivity							
I16	Operating Expense	6,633,187	11,107,910	67%	12,000,000	93%	N/A
R12^a	Operating Expense Ratio	22%	35%	13%	27%	8%	N/A
	Adjusted Operating Expense Ratio	34%	40%	6%	32%	8%	19.8%
R13^a	Cost per Active Client	650	874	34%	650	134%	N/A
	Adjusted Cost per Active Client	951	978	3%	950	103%	N/A
R14	Borrowers per Loan Officer	226	187	- 18%	22	83%	552
R15	Active Clients per Staff Member	129	137	6%	150	91%	190
R16^a	Client Turnover	10%	8%	- 3%	10%	- 3%	N/A
R17	Average Outstanding Loan Size	3,103	3,770	21%	4,000	94%	18,480
	Adjusted Average Outstanding Loan Size	3,239	3,526	9%	4,000	88%	N/A
R18	Average Loan Disbursed	4,500	4,835	7%	5,000	97%	N/A

^a Indicates annualized indicator.

N/A = not applicable.

5.2.3 QUARTERLY BOARD REPORT

Most MFIs are required to provide quarterly or semiannual reports to their boards or other governing bodies. On a quarterly basis, MFIs should provide their boards with adjusted financial statements, a portfolio report, and a full set of the SEEP 18 ratios. In addition, management should develop a short summary report for boards that includes key data with analysis. Managers and the board should agree on the accounts and ratios that are most relevant to the type of analysis that helps the board perform its oversight duties. A sample is provided in Table 5.5.

TABLE 5.5: SAMPLE QUARTERLY OR SEMIANNUAL BOARD REPORT

Ref.	Account Name	As of 12/31/2003	As of 9/30/2004	Trend as of 9/30/2004	Plan Target for 12/30/2004	Variance	Benchmark
Outreach and Activity							
N1	Number of Active Clients	11,458	13,960	22%	15,000	93%	N/A
Profitability							
I21	Net Operating Income	2,915,093	332,681	- 89%	2,500,000	13%	N/A
R1	Operational Self-Sufficiency (OSS)	138%	103%	- 35%	130%	- 27%	128%
	Financial Self- Sufficiency (FSS)	73%	80%	6%	100%	- 20%	123%
R3^a	Return on Equity (ROE)	- 18%	- 3%	15%	- 5%	2%	4%
	Adjusted Return on Equity (AROE)	5%	2%	- 4%	15%	- 13%	N/A
Asset/Liability Management							
B4	Gross Loan Portfolio	34,701,961	49,228,881	42%	50,000,000	98%	323,371,248
R7	Debt to Equity	64%	61%	- 3%	65%	- 4%	1.7
	Adjusted Debt to Equity	64%	61%	- 4%	65%	- 4%	N/A
Portfolio Quality							
R9	PAR Ratio	4.5%	5.1%	0.6%	5.0%	0%	N/A
	Adjusted PAR Ratio	64%	61%	- 3%	65%	- 4%	1.7
R10	Write-off Ratio	64%	61%	- 4%	65%	- 4%	N/A
	Adjusted Write- off Ratio	4.5%	0.051	0.6%	0.05	0.1%	N/A
Efficiency and Productivity							
R12^a	Operating Expense Ratio	22.2%	35.2%	13.0%	27.0%	8.2%	N/A
	Adjusted Operating Expense Ratio	33.8%	40.3%	6.5%	32.0%	8.3%	20%

Ref.	Account Name	As of 12/31/2003	As of 9/30/2004	Trend as of 9/30/2004	Plan Target for 12/30/2004	Variance	Benchmark
R17	Average Outstanding Loan Size	3,103	3,770	21%	4,000	94%	18,480
	Adjusted Average Outstanding Loan Size	—	3,526	9%	4,000	88%	N/A

^a Annualized.

N/A = not applicable.

Box 5.5: Mainstreaming Donor Reporting Requirements

One goal of The SEEP Network is to work with donors to win their acceptance of the formats presented in this Framework so that multiple donors will accept the same financial statements and reports. As part of this effort, SEEP has worked with CGAP to develop a short and simple semiannual donor report format. The report format represents the minimum information that donors should require per CGAP's recommendation.

This report format is presented in the CGAP Donor Guidelines on Good Practice in Microfinance. This can be found at <http://cgap.org/docs/donorguidelines.pdf>.

Ref.	Account Name	Current Period as of 6/30/2004
N11	Exchange Rate (Local Currency: U.S. Dollar)	47
N12	GNI per capita (U.S. Dollars)	\$255
Outreach		
N1	Number of Active Clients	13,005
R17	Average Outstanding Loan Size	3,645
R17	Average Outstanding Loan Size	\$78
N11	Exchange Rate (U.S. Dollars)	
R17	Average Outstanding Loan Size	31%
N12	GNI per capita	
Portfolio Quality		
R9	PAR Ratio	5.20%
R10	Write-off Ratio	0.30%
Profitability		
R1	Financial Self-Sufficiency (FSS)	87%
R2	Return on Assets (ROA)	0.7%
	Adjusted Return on Assets (AROA)	-3.0%
R3*, **	Return on Equity (ROE)	2.3%
	Adjusted Return on Equity (AROE)	-7.5%
Efficiency		
R12*	Operating Expense Ratio	45.40%
R13*	Cost per Active Client	\$21

^a Annualized data.

^b For commercial, for-profit MFIs only.

Source: CGAP/The World Bank, 2004, Building Inclusive Financial Systems: Donor Guidelines on Good Practice in Microfinance (Washington, D.C.: CGAP/The World Bank). http://www.cgap.org/publications/donor_issues.html.

5.2.5 SEMIANNUAL DONOR, CREDITOR, INVESTOR REPORT

Many MFIs receive funding from donors who frequently mandate that the MFI submit reports that follow the donor's format. More MFIs are also receiving funds from lenders and investors, including banks, funds, and socially responsible investors. Most investors will require audited financial statements to be submitted on an annual basis from which they will perform their own analysis. When negotiating a grant, loan, or investment agreement, managers should determine which key data must be provided to investors and lenders and with what frequency. As part of its donor and investor relations responsibility, management should consider providing summarized income statement and key balance sheet information to investors using only the most important accounts on a quarterly or semiannual basis. This information, combined with key ratios, should be presented for the current period to date and the previous year. A sample of such a report is provided in Table 5.6.

TABLE 5.6: SAMPLE SEMIANNUAL DONOR, CREDITOR, INVESTOR REPORT

Ref.	Account Name	Current year-to-date as of 6/30/2004	Previous year as of 12/31/2003
Summarized income statement			
I1	Financial Revenue	9,700,397	10,564,338
I7	(Financial Expense)	(861,949)	(853,197)
I13	(Impairment Losses on Loans)	(125,471)	(162,862)
I16	(Operating Expense)	(9,043,345)	(6,633,187)
I21	Net Operating Income	(330,368)	2,915,093
Balance sheet summary			
B4	Gross Loan Portfolio	46,235,350	34,701,961
B3	Net Loan Portfolio	44,990,348	33,471,489
B12	Total Assets	73,412,892	69,117,773
B13 + B14 + B18	Total Deposits	4,514,327	4,030,868
B15 + B19	Total Borrowings	18,355,806	18,033,518
B21	Total Liabilities	27,292,014	26,949,061
B32	Total Equity	46,120,878	42,168,713
Profitability			
R2*	Return on Assets (ROA)	0.7%	3.5%
	Adjusted Return on Assets (AROA)	- 3.0%	- 16.5%
R3*	Return on Equity (ROE)	2.3%	3.5%
	Adjusted Return on Equity (AROE)	- 7.5%	- 26.5%
Asset liability management			
R7	Debt to Equity	59%	64%
Portfolio quality			
R9	PAR Ratio	5.2%	4.5%
R10	Write-off Ratio	0.3%	0.3%
Efficiency			
R12*	Operating Expense Ratio	45%	22%
Outreach			
N1	Number of Active Clients	13,005	11,458
R17	Average Outstanding Loan Size	30%	26%
N12	GNI per capita		

*Annualized.

5.3 A PERFORMANCE MONITORING CHECKLIST

Preparing a reporting checklist for performance monitoring is a good way for managers to monitor the MFI's production and dissemination of financial statements and reports. Management should agree on the content and frequency of each report with the board, donors, lenders, and investors and create a schedule. After several quarters, managers should identify which data items take the longest to collect and take action to improve the data collection and reporting procedures. Box 5.6 discusses the frequency with which boards receive reports, and table 5.7 is a sample reporting checklist.

Box 5.6: Frequency of Board Reports per Year

The MicroFinance Network surveyed 25 MFIs in 1998, both for-profit and non-profit, to determine the type and frequency of statements and reports that managers provided to their boards or governing bodies. The survey revealed that, on average, boards receive the portfolio report most frequently and the cash flow statement least frequently (a ratio report was not included in the survey). This may reflect the fact that the cash flow statement is a more relevant tool for management. Many of the MFIs surveyed are likely to not produce a cash flow statement on a regular basis. As MFIs begin to take deposits or borrow funds, providing a cash flow statement to the board is important.

Report Type	Non-Profit MFIs	For-Profit MFIs
Income Statement	5	5
Balance Sheet	5	5
Cash Flow Statement	4	2
Portfolio Report	6	10

Source: Anita Campion, 1998, Current Governance Practices of Microfinance Institutions, Conference Paper No. 4 (Washington, D.C.: The MicroFinance Network), 20. http://www.accion.org/pubs/micro_pubs_list.asp.

TABLE 5.7: SAMPLE REPORTING CHECKLIST

Report	Frequency	Due date: No. of days after the end of period	Recipients	Date Completed
Income Statement	Monthly	7 days	Senior management, branch managers	
Adjusted Income Statement	Quarterly	15 days	Board, senior management, branch managers	
Balance Sheet	Quarterly	10 days	Board, senior management	
Adjusted Balance Sheet	Quarterly	7 days	Board, senior management	
Cash Flow Statement	Monthly	7 days	Senior management, branch managers	
Audited Financial Statements	Annual	90 days	Investors, donors, board, senior management	
Portfolio report	Monthly	7 days	Board, senior management, branch managers, credit staff	
Non-Financial Data Report	Monthly	7 days	Senior management, branch managers	
SEEP 18 Ratio Report	Quarterly	15 days	Board, senior management, branch managers	
Monthly Management Report	Monthly	7 days	Senior management, branch managers	
Quarterly Management Report	Quarterly	15 days	Senior management, branch managers	
Quarterly Board Report	Quarterly	15 days	Board	
Semiannual Donor Report	Semiannual	15 days	Donors	
Semiannual Investor Report	Semiannual	15 days	Investors	

6 GLOSSARY

Account Name	Definition
allowance	A <i>balance sheet</i> contra account used to show the estimated amount of receivables that an institution does not expect to collect. When presented against the gross receivable account, the allowance enables the institution to estimate the amount of receivables that it expects to collect.
arrears	The principal due but unpaid for all loans that have one or more installments of principal past due by one or more days.
asset quality	An indication of the level of risk inherent in the organization's <i>assets</i> based on the likelihood that these <i>assets</i> will be lost and no longer produce future economic benefits.
assets	As defined by the International Accounting Standards (IAS), a resource controlled by an institution as a result of past events and from which future economic benefits are expected to flow to the institution.
balance sheet	A <i>stock</i> statement that shows the <i>financial position</i> of the institution at a point in time, including its economic resources, claims on those resources, and the residual interest in them.
cash flow statement	A <i>flow</i> statement that summarizes the inflows and outflows of cash for an institution over a given <i>period</i> .
contra asset account	A negative <i>asset</i> account that accumulates subtractions from another <i>asset</i> account. See also <i>allowance</i> .
deposit rate	As defined by the International Monetary Fund (IMF), the deposit rate “usually refers to rates offered to resident customers for demand, time, and savings deposits.”
direct method cash flow statement	The presentation of cash receipts and payments made over a given <i>period</i> . This presentation of sources and uses of cash is often divided by operating, investing, and financing activities to determine the use of cash in each of these areas.
equity	As defined by IAS, the residual interest in the <i>assets</i> of an institution after deducting all its <i>liabilities</i> .
expenses	As defined by IAS, decreases in economic benefits during the accounting <i>period</i> in the form of outflows, depletions of <i>assets</i> , or incurred <i>liabilities</i> that result in decreases in <i>equity</i> other than those relating to distributions to <i>equity</i> participants.
financial position	As defined by IAS, the relationship of the <i>assets</i> , <i>liabilities</i> , and <i>equities</i> of an institution as reported in the <i>balance sheet</i> .
flow	The change in the amount of an item over time. Contrast with <i>stock</i> .
foreign exchange gain (loss)	As defined by IAS, <i>gain (loss)</i> from holding net foreign monetary items. Monetary items are money held and <i>assets</i> and <i>liabilities</i> to be received or paid in fixed or determinable amounts of money. This type of gain (loss) arises from reporting the same number of units of a foreign currency in the reporting currency at different exchange rates from the opening to the closing of a <i>period</i> .

Account Name	Definition
full-time equivalent	Means of calculating a staff member's time so that, e.g., advisors who spend two-thirds of their time at an institution would be considered two-thirds of a full-time employee. Similarly, when calculating full-time equivalence for a given position, the institution should count the time a staff member spends doing certain tasks of that position as a percentage of the time that a full-time employee in that position spends doing them. For example, an institution that has five loan officers and one supervisor who manages some loans may report 5.5 as the number of loan officers.
funding liability	All <i>liabilities</i> used to finance an institution's financial assets.
gains	As defined by IAS, increases in economic benefits—as such, they are no different in nature from <i>revenue</i> .
goodwill	As defined by IAS, any excess of the cost of the acquisition over the acquirer's interest in the fair value of the identifiable <i>assets</i> and <i>liabilities</i> acquired at the date of the exchange transaction.
Gross National Income (GNI) per capita	As defined by the World Bank's World Development Index, "measures the total domestic and foreign value added claimed by residents. The sum of value added by all resident producers plus any product taxes (less subsidies) not included in the valuation of output plus net receipts of primary income (compensation of employees and property income) from abroad. GNI per capita is the GNI divided by the midyear population of the country."
income statement	A flow statement that summarizes all <i>revenues</i> , <i>expenses</i> , <i>gains</i> , and <i>losses</i> over a given <i>period</i> .
indirect method cash flow statement	With respect to the <i>cash flow statement</i> , demonstrates changes in cash position by starting with the <i>net income</i> and showing adjustments for <i>revenues</i> not currently producing cash and <i>expenses</i> not currently using cash. This presentation is often divided by operating, investing, and financing activities to determine the use of cash in each of these areas.
International Accounting Standards	IAS were issued by the International Accounting Standards Committee from 1973 to 2000. The International Accounting Standards Boards (IASB) replaced the IASC in 2001. Since then, the IASB has amended some IAS, proposed to amend other IAS, proposed to replace some IAS with new International Financial Reporting Standards, and adopted or proposed new IFRS on topics for which no previous IAS existed.
International Financial Reporting Standards (IFRS)	Refers to the new numbered series of pronouncements that the International Accounting Standards Board (IASB) is issuing, as distinct from the International Accounting Standards (IAS) series issued by its predecessor. More broadly, IFRS refers to the entire body of IASB pronouncements, including standards and interpretations approved by the IASB and IAS and Standards Interpretation Committee (SIC). Financial statements may not be described as complying with IFRS unless they comply with all the requirements of each applicable standard and each applicable interpretation.
inflation	As defined by IMF, inflation is the "change in the cost of acquiring a fixed basket of goods and services by the average consumer."
liabilities	A present obligation of the institution arising from past events, the settlement of which is expected to result in an outflow from the institution of resources with

Account Name	Definition
	economic benefits.
liquidity	As defined by IAS, the availability of sufficient funds to meet deposit withdrawals and other financial commitments as they fall due.
losses	Decreases in economic benefits that are no different in nature from <i>expenses</i> .
materiality	As defined by IAS, information is material if its nondisclosure could influence the economic decisions of users.
net income	The excess of all <i>revenues</i> and <i>gains</i> for a given <i>period</i> over all <i>expenses</i> and <i>losses</i> .
net worth	See <i>equity</i> .
non-operating accounts	<i>Revenue</i> and <i>expense</i> accounts not related to the institution's core business—the provision of financial services.
non-performing loans	See <i>portfolio at risk</i> .
operating accounts	<i>Revenue</i> and <i>expense</i> accounts related to the institution's core business—the provision of financial services.
past due payments	The principal and interest due but unpaid for all loans that have one or more installments of principal past due by one or more days. Contrast with <i>arrears</i> .
period	The time covered between two consecutive <i>balance sheets</i> .
portfolio at risk	The principal balance of all loans outstanding that have one or more installments of principal past due by one or more days.
profit and loss statement	See <i>income statement</i> .
revenue	As defined by IAS, the gross inflow of economic benefits during a period arising in the course of ordinary activities of an institution when those inflows result in increases in <i>equity</i> other than increases relating to contributions from <i>equity</i> participants.
solvency	As defined by IAS, the availability of cash over the longer term to meet financial commitments as they fall due.
sources and uses of funds statement	See <i>cash flow statement</i> .
spread	The percentage difference between the interest rate charged on a bank loan and the lender's cost of funds
statement of changes in equity	A <i>flow</i> statement that summarizes the economic transactions that affect an institution's <i>equity</i> over a given <i>period</i> .
statement of changes in net worth	See <i>statement of changes in equity</i> .

Account Name	Definition
statement of financial position	See <i>balance sheet</i> .
stock	Represents a measure of something on hand at a given point in time. Contrast with <i>flow</i> .
trial balance	A presentation of all debit and credit balances for all accounts at a given point in time. Debit balances are presented in a left column and credit balances in a right column. The two should be equal.

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